Firmenich
for good, naturally

FIRMENICH PERFUMERY INGREDIENTS 2020



ECOINGREDIENT COMPASS™

Innovative Craftsmanship in Fragrances, Taste and Beyond

Family Owned, Founded in Geneva, 1895

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INTRODUCTION

Since its foundation, Firmenich has always placed a high priority on sustainable research geared towards the discovery of new fragrance ingredients using green chemistry principles, responsible sourcing and state of the art extraction processes.

Firmenich Fragrance Ingredients Catalogue comes with additional usage information, aimed at helping the user to obtain best effects with our ingredients.

STABILITY & PERFORMANCE TABLE

In this edition we have added recommended application lists, stability indications, typical dosage ranges, substantivity data and other pertinent remarks per ingredient featured in this catalogue.

These tables are a guide and are intended to assist perfumers when choosing ingredients for creation.

"Recommended Applications" is a non-exhaustive list of applications where our perfumers have found value in creating with the given ingredient, at the indicated dosage range.

"Stability" is the result of tests carried out in in-house bases over a period of 1 month at 40°C. Detergent refers to powder detergent containing a bleaching agent.
Softener stands for standard concentration fabric conditioner (fabric softener).
APC stands for All Purpose Cleaner.

Results are given using the following code:

■■■■ excellent ■■■ good ■■ acceptable ■ poor

Under **"Substantivity & Remarks"** we indicate the relative performance of the given ingredient per application. "Wet" and "dry" relate to the residual fragrance intensity in the following way:

- for shampoo: on freshly washed wet hair and 6 hours dry hair
- for detergent: on freshly machine washed cloth and 1 day dry cloth
- for softener: on freshly machine washed cloth and 1 day dry cloth

For shower gel: **"bloom"** is an indication of the fragrance intensity perceived when the ingredient in the shower gel base is mixed with warm water.

For soap: **"foam"** relates to the fragrance intensity perceived when using the soap bar, **"dry hand"** relates to the fragrance intensity perceived from a towel dried after washing with ingredient.

Candle: **"Cold Wax"** refers to fragrance intensity perceived from the wax of a non-lit candle. "Burning" refers to fragrance intensity perceived from the lit candle.

Disclaimer:
The information in these tables is to the best of our knowledge and reflects our interpretation of in-house generated data.
These tables do not intent to be a comprehensive reference document and we encourage the user to carry out stability and performance tests in their final application to determine suitability.

ECOINGREDIENT COMPASS™



BIODEGRADABILITY

Ingredients that are biodegradable

Readily (≥60% within 28 days AND from 10 to 60% within 10 days).
Ultimately (≥60% within 60 days),
Partially (20 to 60% within 60 days).
Green Chemistry principle 10

Biodegradation is assessed in lab tests following OECD guidelines.
Diluted ingredient: value of the pure ingredient.

- Readily biodegradable
- Ultimately biodegradable
- Partially biodegradable



GREEN CHEMISTRY SCORE

A ratio that covers most of the remaining Green Chemistry Principles in addition to Renewable carbon and Biodegradability.

Regroups the measure of:

Carbon atom economy,
Green Chemistry principles 2 & 8

Importance of catalysis steps,
Green Chemistry principle 9

Hazardousness, covering all aspects of manufacturing processes.
Green Chemistry principles 3, 4, 5 & 12

Developed by Firmenich.
Diluted ingredient: value of the pure ingredient.

- > 70% Green Chemistry
- 50-70% Green Chemistry



RENEWABLE CARBON

Ingredients that contain
more than 50% carbon from renewable sources.
Green Chemistry principle 7

ISO 16128
Diluted ingredient: value of the dilution.

- 100% RC
- > 50% RC



BIOTECHNOLOGY

Ingredients that are produced
- from biotechnology (no green chemistry score)
- or via biotechnology (green chemistry score associated)

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ALDEHYDE MANDARINE 10 TEC	965765	0020407-84-5	54
ALDEHYDE MNA	907771	0000110-41-8	55
ALDEHYDE MOA	907768	0019009-56-4	56
ALDEHYDE SUPRA	908162	0000143-14-6	57
AMBRINOL	908930	0041199-19-3	58
AMBROX® DL	909120	0003738-00-9	59
AMBROX® SUPER	909158	0006790-58-5	60
CALONE®	918970	0028940-11-6	61
CARBINOL MUGUET	920100	0000103-05-9	62
CASCALONE®	920000	0950919-28-5	63
CEDROXYDE®	922470	0071735-79-0	64
CENTIFOLETHER	922493	0120811-92-9	65
CETALOX®	922560	0003738-00-9	66
CIS-3-HEXENOL NAT	925001	0000928-96-1	67
CIS-3-HEXENYL ACETATE NAT	925002	0003681-71-8	68
CIS-3-HEXENYL CAPROATE NAT	925004	0031501-11-8	69
CIVETTONE	926851	0000542-46-1	70
CLEARWOOD®	970953	1450625-49-6	71
CORANOL	928130	0083926-73-2	72
CYCLOMETHYLENE CITRONELLOL	937001	0015760-18-6	73
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DAMASCONE ALPHA	937470	0024720-09-0	79
DAMASCONE BETA FAB	939697	0023726-91-2	80
DAMASCONE DELTA	937856	0057378-68-4	81
DAMASCONE GAMMA	944580	0035087-49-1	82
DARTANOL®	937490	0028219-61-6	83
DELPHOL HC®	937165	0084560-00-9	84
DELPHONE	937850	0004819-67-4	85
DIHYDROEUGENOL	938520	0002785-87-7	86
DOREMOX®	939668	0149713-23-5	87
DYNASCONE®	939745	0056973-85-4	88
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EXALTOLIDE®	941962	0000106-02-5	90
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FIRASCONE®	942551	0815580-59-7	92
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FLOROL®	966458	0063500-71-0	94
FRUCTALATE®	943871	0072903-27-6	95
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HEDIONE®	964898	0024851-98-7	100
HEDIONE® HC	947325	0024851-98-7	101
HELVETOLIDE®	947650	0141773-73-1	102
HIVERNAL® NEO	948605	0300371-33-9	103
INDOCOLORE®	949021	0002206-94-2	104
IRALIA®	949828	0001335-46-2	105
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ISOPENTYRATE	951517	0080118-06-5	108
JASMINLACTONE	952700	0025524-95-2	109
JASMOLACTONE DELTA	965414	0032764-98-0	110
LILYFLORE®	955210	0285977-85-7	111
LORYSIA®	956256	-	112
MAYOL®	957230	0013828-37-0	113
METHYL CYCLOGERANATE	936915	0028043-10-9	114
METHYL GERANATE	945040	0001189-09-9	115
MUSCENONE® DELTA	962191	0063314-79-4	116
MUSCONE	962195	0000541-91-3	117
MUSCONE LAEVO	954117	0000541-91-3	118
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RHUBOFIX®	978880	0041816-03-9	129
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ROMANDOLIDE®	979031	0236391-76-7	131
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SALICYNILE®	981050	0130786-09-3	133
SCENTENAL®	981810	0086803-90-9	134
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TRIFERNAL®	989007	0016251-77-7	136
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BRAN WHEAT SOFT ABS	982450	0068916-76-7	152
BROOM ABS	944945	0129316-65-0	153
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0097676-19-2	BLACKCURRANT BUD BURGUNDY ABS	921271	151
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Firmenich has created and offered to the market speciality bases for over 100 years. The original concept of the speciality base was to facilitate the use of either very powerful ingredients or to simplify the use of interesting but difficult to use ingredients.

Reconstitutions of natural products also became a major raison-d'être for speciality bases, especially in the light of ever growing demand for stable prices and consistent quality.

Our speciality bases have found considerable success in the market and, upon the request of our customers and the ever changing national and international regulatory requirements, we have made modified versions of them to be fully compliant.

Today we still o ffer a full range of speciality bases which are listed on the following pages. For simplicity we have only given the name of the speciality base followed by its olfactive description. In certain cases where multiple versions exist, numerical and alphabetical suffixes, which related to modifications, have been removed.

Should you request a sample of one of our bases we will be happy to supply you with a version appropriate to your end use.
Please contact your usual Firmenich contact for details and guidance.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
ALLOGAL BASE 038350 B	Green Aromatic A fresh, green and aromatic top note with great strength and diffusion. Blends well with all kind of citrus, herbal and flowery compositions.
AMBREGRIS SYNTH 184120	Ambery Amber, dry, woody, leather, animal and smoky.
ARMENIAN WOOD BASE 260107 D	Woody Ambery Inspired by a traditional paper, used to be burnt and elegantly fragrance home, this base has been created around a main olfactive axis: Benzoin Siam.
AURANONE 911383	Musky A strong musky base with a delicate floral, somewhat animalic and sandalwood character.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
AURATOUCH 911382	Musky Musky, ambrette, powdery.
BERGAMOTE 184056	Citrus Bergamot, coniferous.
BEYOND HIVERNAL® 184255	Floral Muguet BEYOND HIVERNAL® offers fresh, floral, muguet, watery and green notes associated with a light blooming transparency.
BEYOND LILYFLORE® 184256	Floral Muguet BEYOND LILYFLORE® offers a delicate floral bouquet reminiscent of lily of the valley, with a sweet powdery effect.
BLACK AGAR 296985	Oud Woody Oud, leathery, Woody, ambery. With a vibrant structure, Black Agar brings tenacity and unforgettable dark character to the sillage of men's fragrances.
CASSIONE 921189	Floral Fruity Possesses a warm, biting and tenacious odour of cassie and mimosa.
CASSIS BASE 184049 K	Fruity Fruity, sulphur, green, floral.
CASTOREUM SYNTH 184004 D	Animalic Castoreum.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
CETYLIA® BASE 184134 D	■ Floral Floral, aldehydic, fruity.
CITROASIS BASE 184040 D	■ Citrus ■ Fruity Citrus, fruity, floral.
CITRON 184067 F	■ Citrus A synthetic reconstitution of lemon oil.
CIVETTE SYNTH 184014 D	■ Animalic Animal, Powerful, Floral, Fecal odor, Honey, musk.
DAMASCENIA 184026 FG	■ Floral A characteristic top note of Rose Otto; very powerful, warm and fresh.
DORINIA 184057 D	■ Floral ■ Green Rose flowers, violet.
DREAMWOOD™ BASE 184270	■ Woody ■ Sandalwood DREAMWOOD™ BASE takes its inspiration from the iconic Mysore Sandalwood, also known as the "royal tree" in the Mysore district of Karnataka, India. Created around DREAMWOOD™, our latest breakthrough captive ingredi ent from white bio technology, DREAMWOOD™ BASE is designed for p ure performance. The traditional woody creamy warms of sandalwood is also brought to light by our best sandalwood molecules, some of which captive.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
FEUILLAGE VERT 184005 D	Green Aromatic Green, leaf.
FIRLIAL 184231	Floral Muguet Floral muguet, cyclamen accord with aldehydic facets.
FIXATEUR 000505 E	Ambery Woody A very powerful odor of ambergris with a slightly woody-dry character.
FIXOBOIS 066606 D	Woody A distinctive and powerful woody note that is dry, warm and full-bodied.
FRAISE 184075 D	Fruity An olfactive reproduction of the fragrance of wild strawberries.
FRAMBOISE 184039 D	Fruity An olfactive reproduction of the fragrance of ripe raspberries.
FRUIT SEC 184078 D	Fruity A speciality base reminiscent of dried fruit.
GALBEX® 184061 D	Green Green, fruity pineapple, gin, floral powdery, bitter. Firmenich offers its legacy in green notes with this creative inspiration that brings a fresh and remanent green sillage in compositions.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
GRANNY SMITH 184059 D	■ Fruity Fruity, apple, red fruits. A fresh apple note built around FRUCTALATE®, TANGERINAL and DAMASCONE GAMMA. Strongly reminiscent of the scent of the Granny Smith variety with sparkling mandarin effect.
GRAPEFRUIT BASE 184062 D	■ Fruity A versatile and effective grapefruit, fruity and citrus note.
GRISAMBROL D 947173	■ Ambery This speciality possesses the same velvety, tenacious odour as natural ambergris.
GUAVA BASE 270237	■ Fruity ■ Citrus This powerful base brings strong tropical guava, mango and passion fruit notes.
IRIS ABS SYNTH 000199 SA	■ Floral A synthetic reconstitution of orris absolute.
IRIS CONCRETE SYNTH 184032 D	■ Floral Orris, green, woody.
IVY BASE 290958	■ Green ■ Floral A smooth green accord, with elements of Violet Leaf, Green Grass and Galbanum.
JACINTHEME 184000	■ Floral ■ Green An odor reminiscent of the green floral heart of hyacinth. Jacintheme possesses a misleading strength and the ability to diffuse.
JASMIN 184165 D	■ Floral □ White Flower A Fantasy jasmine base. Very animalic and incredibly rich. One of the most impactful base created by Firmenich.

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BASE NAME / CODE	OLFACTIVE DESCRIPTION
JASMIN 184065 D	■ Floral Floral, jasmine, aldehydic.
JASMOPHORE® 184195	■ Floral This specialty possesses a heavy floral character and contains aspects of the odour of jasmin absolute.
KUMQUAT BASE 270258	■ Citrus ■ Fruity A mouthwatering base reminiscent of Kumquat, built around several citrus captives.
LEATHER OUD 293316	■ Oud ■ Leathery Oud, leathery, animalic, fruity. Inspired by pure natural Oud, Leather Oud is alive with the thousand facets of precious Oud.
LILY BASE 184226	■ Floral ■ Muguet Lily base is the perfect tool for new white flower and lily of the valley accords.
LIMBWOOD 109289 H	■ Woody Extremely powerful woody and ambery note, with a slightly animal undertone, developing a dry woody note in the direction of patchouli.
MANDARINAL 184002 KD	■ Aldehydic Aldehydic, mandarin.
MIRABELLE 002000 F	■ Fruity This speciality possesses a fruity and rather fatty odour reminiscent of the mirabelle flower.
MYSORE WOOD 260108 B	■ Woody An elegant association of the noblest woody notes. A precious sandalwood creamy lift, designed to create performing new signatures.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
NECTAROL 184139 D	Gourmand Reproduces faithfully the odour of honey.
OUD SYNTH 184007 D	Oud Leathery A reconstitution of agarwood oil. Intensely woody, animalic and reminiscent of vetiver, with sweet balsamic undertones.
OXANIA BASE 038231	Green Fruity A fresh and very natural green, fruity note with a great strength that recalls the character of lemon and grapefruit.
PALISANDROL 017979 F	Woody A very intense and rich woody speciality with aspects of dried wood.
PARMANTHEME 184011	Floral Green An extremely powerful and diffusive note of Parma violets.
PASSION FRUIT BASE 109223 GEB	Fruity A fruity note in the direction of kiwi, mango, peach and lactonic citrus.
PRETTY OUD 820526	Oud Leathery Smoky, leathery, woody. A sensual woody profile beaming with rich smoky facets.
PRUNELLA® 975617	Fruity Fruity, dried-fruits, coconut. A powerful and complex note reminiscent of the odor of ripe plums.
ROSESSENCE 000193 GB	Floral A synthetic very complex reconstitution of Bulgarian rose oil. Probably the closest speciality to natural Bulgarian rose essential oil.

BASE NAME / CODE	OLFACTIVE DESCRIPTION
ROSESSENCE 184010 F - 184022	■ Floral Rose.
SANDALWOOD 184025	■ Woody Woody, oriental, milky. A powerful, rich, precious-wood tonality with a distinct resemblance to sandalwood oil.
SARRIETTE BASE 199618 D	■ Aromatic A new herbal-thuyonic speciality based on several Firmenich captive ingredients, and a powerful new derivative of OXANE. The base opens with aromatic herbal notes, dry notes similar to cypress, settles down to more green vegetal pepper notes. Fresh and longlasting.
TAMARINE BASE 041310 G	■ Citrus ■ Green A very diffusive and natural note of the green mandarin.
TEAK 184173 B	■ Woody A woody base with a strong ambery note and floral-herbal side notes.
VERT DE CITRON 184116 D	■ Citrus A very powerful citrus green note reminiscent of the green note of lime.
VETYRISIA® 991002	■ Woody VETYRISIA® is one of the iconic woody base, very rich.
WARDIA® 184036 WARDIA® BM 184212 D	■ Floral ■ Rose This intoxicating rose has exceptionally rich profile with also powdery notes.
WOOD BASE 260106	■ Woody ■ Leathery With a fresh and fizzy undertone, this Wood base surprises with a modern and elegant ribbon of oud radiant warmth.

ALDEHYDE C 11 UNDECYLIC
907163

ALDEHYDIC

FLORAL

CHEMICAL SYNTHESIS

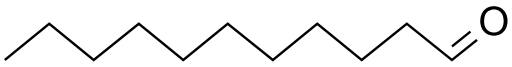
CAS NUMBER	0000112-44-7
REACH NUMBER	01-2119529242-47
FEMA NUMBER	3092

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%

Undecanal





OLFACTIVE DESCRIPTION

The classic aldehydic note: waxy and floral.

PERFUMERY USAGE

Among the most commonly used aldehydes for "aldehydic" effect.

Often used with other aldehydes up to levels of a few percent. Trace amounts give rich natural floral effects.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.56
APPEARANCE	CLEAR LIQUID
FLASHPOINT	96°C
VAPOUR PRESSURE	5.24 Pa at 20°C
MOLECULAR WEIGHT	170
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●	TRACES - 0,07%	TOP NOTE			
SHAMPOO	●●●●	0,02% - 0,2%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	0,03% - 0,3%	BLOOM	●●●●		
SOAP	●●●	0,5% - 2%	FOAM	●●●	DRY HAND	●●
DETERGENT	●	0,4% - 2%	WET	●●●	DRY	●●
SOFTENER	●●●	0,2% - 1%	WET	●●●●	DRY	●●●
APC	●●	0,2% - 0,8%				
CANDLE	●●●	0,02% - 0,2%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

ALDEHYDE C 9
906954

ALDEHYDIC

GREEN

CHEMICAL SYNTHESIS

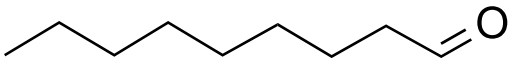
CAS NUMBER	0000124-19-6
REACH NUMBER	01-2119969440-35
FEMA NUMBER	2782

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%

Nonanal





OLFACTIVE DESCRIPTION

A classical aldehyde note: waxy, citrus, floral and green.

PERFUMERY USAGE

At higher levels, an important ingredient in citrus and rose notes.

In trace amounts, it adds bloom to a wide range of fragrance types.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.42
APPEARANCE	LIQUID
FLASHPOINT	68°C
VAPOUR PRESSURE	51.46 Pa at 20°C
MOLECULAR WEIGHT	142
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	TRACES - 0,03%	TOP NOTE
SHAMPOO	●●	0,02% - 0,2%	WET ●●●● DRY ●●
SHOWER GEL	●●	0,02% - 0,1%	BLOOM ●●●●
SOAP	●●	0,06% - 0,7%	FOAM ●●●● DRY HAND ●●
DETERGENT	●	0,09% - 0,7%	WET ●●● DRY ●
SOFTENER	●●●	0,06% - 0,4%	WET ●●●● DRY ●●●
APC	●	0,4% - 3%	
CANDLE	●●●	0,04% - 0,3%	COLD WAX ●●●● BURNING ●

DID YOU KNOW ?

ALDEHYDE MANDARINE 10 TEC
965765

ALDEHYDIC

CITRUS

CHEMICAL SYNTHESIS

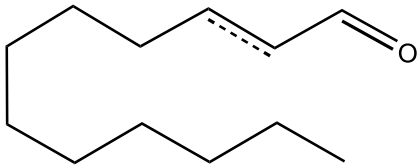
CAS NUMBER	0020407-84-5
REACH NUMBER	01-2120111676-59
FEMA NUMBER	2402

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 50 - 70%

2-Dodecenal, (E)-





OLFACTIVE DESCRIPTION

Aldehydic, metallic, citrus, coriander.

A powerful and complex odor with distinct mandarin and coriander aspects.

PERFUMERY USAGE

A uniquely long-lasting citrus mandarin note with superior diffusion that is versatile in a wide range of fragrance types.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	-
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.48 Pa at 20°C
MOLECULAR WEIGHT	182
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,06% - 0,3%	TOP NOTE			
SHAMPOO	●●	0,07% - 0,3%	WET	●●●●	DRY	●●●
SHOWER GEL	●●	0,2% - 0,8%	BLOOM	●●●		
SOAP	●●●●	0,2% - 0,8%	FOAM	●●●	DRY HAND	●●●●
DETERGENT	●	0,2% - 0,8%	WET	●●●●	DRY	●●●●
SOFTENER	●●●	0,1% - 0,6%	WET	●●●●	DRY	●●●●
APC	●	0,3% - 1%				
CANDLE	●●●	0,2% - 0,9%	COLD WAX		BURNING	

DID YOU KNOW ?

MANDARINE ALDEHYDE was first found in Orange Peel Oil in 1947.

ALDEHYDE MNA
907771

ALDEHYDIC

GREEN

CHEMICAL SYNTHESIS

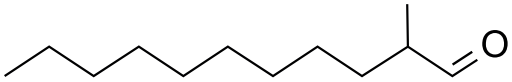
CAS NUMBER	0000110-41-8
REACH NUMBER	01-2119969443-29
FEMA NUMBER	2749

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%

Undecanal, 2-methyl-





OLFACTIVE DESCRIPTION

Unctuous, floral, metallic.

A classical and powerful aldehyde with citrus, fresh, ozonic and slightly ambery tones.

PERFUMERY USAGE

A long-lasting fresh and clean note that brings bloom and brightness to all fragrance types.

TENACITY

Lasts 1 week
on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.01
APPEARANCE	LIQUID
FLASHPOINT	69°C
VAPOUR PRESSURE	0.85 Pa at 20°C
MOLECULAR WEIGHT	184
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,02% - 0,2%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,08% - 0,3%	WET	●●●	DRY	●●●●
SHOWER GEL	●●●	0,1% - 0,6%	BLOOM	●●●●		
SOAP	●●●	0,3% - 1%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●	1% - 3%	WET	●●●	DRY	●●
SOFTENER	●●●	0,7% - 3%	WET	●●●●	DRY	●●●
APC	●●	0,8% - 3%				
CANDLE	●●●	0,2% - 1,0%	COLD WAX	●●●●	BURNING	●●●●

DID YOU KNOW ?

ALDEHYDE MNA stands for Aldehyde MethylNonylAcetaldehyde.

ALDEHYDE MOA
907768

ALDEHYDIC

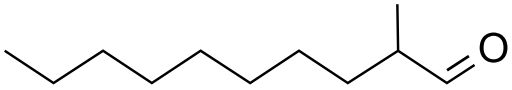
CITRUS

CHEMICAL SYNTHESIS

Decanal, 2-methyl-



CAS NUMBER	0019009-56-4
REACH NUMBER	01-2120750382-59
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

A powerful aldehydic, citrus note that brings fresh, ozonic and watery characters to fragrances.

PERFUMERY USAGE

It delivers a fresh long-lasting citrus and watery character to most types of fragrances.

It can be used as an alternative of citrus.

Less powerful and ozonic than ALDEHYDE MNA.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.73
APPEARANCE	LIQUID
FLASHPOINT	96°C
VAPOUR PRESSURE	9.51 Pa at 20°C
MOLECULAR WEIGHT	170
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,02%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,01% - 0,06%	WET	●●●	DRY	●●●●
SHOWER GEL	●●●	0,06% - 0,1%	BLOOM	●●●●		
SOAP	●●●	0,2% - 0,5%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●	0,3% - 1%	WET	●●●	DRY	●●
SOFTENER	●●●	0,07% - 0,2%	WET	●●●●	DRY	●●●
APC	●●	0,8% - 3%				
CANDLE	●●●	0,3% - 0,5%	COLD WAX	●●●●	BURNING	●●●●

DID YOU KNOW ?

ALDEHYDE MOA stands for Aldehyde MethylOctylAcetaldehyde.

ALDEHYDE SUPRA
908162

ALDEHYDIC

CHEMICAL SYNTHESIS

9-Undecenal

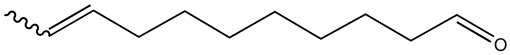


CAS NUMBER	0000143-14-6
REACH NUMBER	01-2120065933-50
FEMA NUMBER	3094

RENEWABLE CARBON 100%

BIODEGRADABILITY Readily

GREEN CHEMISTRY SCORE 70 - 100%



OLFACTIVE DESCRIPTION

An extremely clean and powerful aldehydic note with a waxy, animal, citrus-mandarin, fatty, floral character.

PERFUMERY USAGE

One of the strongest aldehydic notes that brings tremendous performance and freshness at low dosages.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.26
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	3.88 Pa at 20°C
MOLECULAR WEIGHT	168
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,01% - 0,07%	TOP NOTE			
SHAMPOO	●●●●	0,03% - 0,08%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	0,09% - 0,3%	BLOOM	●●●●		
SOAP	●●●	0,2% - 0,6%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●	0,3% - 0,9%	WET	●●●	DRY	●●●
SOFTENER	●●●	0,2% - 0,5%	WET	●●●●	DRY	●●●●
APC	●●●	0,10% - 0,3%				
CANDLE	●●●	0,02% - 0,06%	COLD WAX	●●●●	BURNING	●●

DID YOU KNOW ?

AMBRINOL
908930

AMBERY

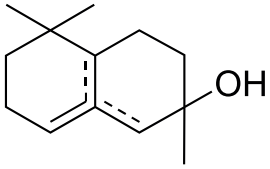
ANIMALIC

CHEMICAL SYNTHESIS

CAS NUMBER	0041199-19-3
REACH NUMBER	01-2120113741-68
FEMA NUMBER	
BIODEGRADABILITY	Partially
GREEN CHEMISTRY SCORE	70 - 100%

2-Naphthalenol, 1,2,3,4,4a,5,6,7-octahydro-2,2,5-trimethyl-





OLFACTIVE DESCRIPTION

Ambery, animalic, mossy, watery.

A very strong and powerful note with a natural ambergris quality; somewhat musky, animalic and earthy.

PERFUMERY USAGE

This ingredient is best used in small amounts.

It can be used in all perfume types to add depth, complexity and texture; in particular to woody, oriental and floral creations.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.2
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.03 Pa at 20°C
MOLECULAR WEIGHT	194
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,03% - 0,7%	HEART AND BASE NOTE
SHAMPOO	●●●	0,02% - 0,08%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,01% - 0,05%	BLOOM ●●●
SOAP	●●●	TRACES - 0,04%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●●	TRACES - 0,03%	WET ●●● DRY ●●
SOFTENER	●●●●	TRACES - 0,02%	WET ●●●● DRY ●●●●
APC	●●●	0,02% - 0,06%	
CANDLE	●●●●	0,02% - 0,08%	COLD WAX ●●●● BURNING ●●●●

DID YOU KNOW ?

From AMBROX® to CETALOX®, a Firmenich family of ingredients with history and legacy.
1930 Firmenich discovers chemical structure of AMBROX® in natural ambregris
1939 Nobel prize.
2016 First commercial scale-up of AMBROX® SUPER via white biotech.

AMBROX® DL
909120

AMBERY

CHEMICAL SYNTHESIS

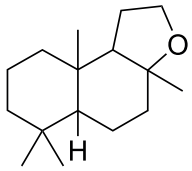
Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-



CAS NUMBER	0003738-00-9
REACH NUMBER	01-2120094518-45
FEMA NUMBER	3471

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

An elegant amber note with a rich woody character.

PERFUMERY USAGE

This ingredient provides warmth, richness and elegance to all areas of perfumery from sheer florals to modern orientals.

Due to its power, best effects can be achieved at lower dosages, however, higher levels are often used to provide performance and substantivity.

TENACITY

Lasts 1 month on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.95
APPEARANCE	SOLID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.29 Pa at 20°C
MOLECULAR WEIGHT	236
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,5% - 3%	HEART AND BASE NOTE			
SHAMPOO	●●●	0,06% - 0,4%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	0,2% - 0,7%	BLOOM	●●●●		
SOAP	●●●	0,06% - 0,4%	FOAM	●●	DRY HAND	●●●
DETERGENT	●●●	0,03% - 0,2%	WET	●●●	DRY	●●●●
SOFTENER	●●●●	0,1% - 0,6%	WET	●●●●	DRY	●●●●
APC	●●●	0,04% - 0,2%				
CANDLE	●●●●	0,04% - 0,2%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

From AMBROX® to CETALOX®, a Firmenich family of ingredients with history and legacy.
1930 Firmenich discovers chemical structure of AMBROX® in natural ambregris
1939 Nobel prize.
2016 First commercial scale-up of AMBROX® SUPER via white biotech.

AMBROX® SUPER
909158

AMBERY

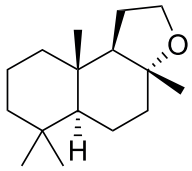
VIA WHITE BIOTECHNOLOGY

Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-, [3aR-



CAS NUMBER	0006790-58-5
REACH NUMBER	01-2120070784-50
FEMA NUMBER	3471

RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Extremely powerful and elegant ambery odor with a musky, woody tonality.

From its discovery by Firmenich in the 1950's to its breakthrough new production process via white biotechnology in 2016, AMBROX® SUPER delivers all the promises of sleek elegance and powerful iconic ambery signature.

Sparkling sensuality, AMBROX® SUPER offers musky and woody tonalities to the emblematic' family of ambery ingredients.

Compared to CETALOX®, the profile of AMBROX® SUPER is more natural, more animalic, closer to ambregris in which it had been discovered (the profile of CETALOX® is more woody, dry).

PERFUMERY USAGE

AMBROX® SUPER is highly diffusive and brings a unique ambery effect from top notes to dry down.

TENACITY

Lasts 1 month
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	6.85
APPEARANCE	CRYSTALLINE POWDER
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.29 Pa at 20°C
MOLECULAR WEIGHT	236
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,6% - 3%	HEART AND BASE NOTE			
SHAMPOO	●●●●	0,05% - 0,1%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●●	0,1% - 0,7%	BLOOM	●●●●		
SOAP	●●●●	0,06% - 0,3%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●	0,2% - 0,8%	WET	●●●	DRY	●●●●
SOFTENER	●●●●	0,2% - 0,8%	WET	●●●●	DRY	●●●●
APC	●●●	0,02% - 0,03%				
CANDLE	●●●●	0,02% - 0,1%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

From AMBROX® to CETALOX®, a Firmenich family of ingredients with history and legacy.
1930 Firmenich discovers chemical structure of AMBROX® in natural ambregris.
1939 Nobel prize.
2016 First commercial scale-up of AMBROX® SUPER via white biotech.

CALONE®
918970

WATERY

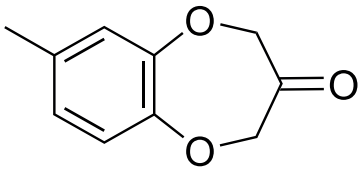
CHEMICAL SYNTHESIS

2H-1,5-Benzodioxepin-3(4H)-one, 7- methyl-



CAS NUMBER	0028940-11-6
REACH NUMBER	01-2120734453-58
FEMA NUMBER	

GREEN CHEMISTRY SCORE **50 - 70%**



OLFACTIVE DESCRIPTION

This unusual ingredient displays intense ozone and marine notes with floral undertones.

PERFUMERY USAGE

CALONE® is very trendy and has been widely used since the 1990's. It is the basis of several perfumes.

TENACITY

Lasts 2 days
on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	1.61
APPEARANCE	CRYSTALLINE POWDER
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.05 Pa at 20°C
MOLECULAR WEIGHT	179
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	■■■■	0,2% - 0,7%	TOP AND HEART NOTE			
SHAMPOO	■■■	0,08% - 0,3%	WET	■■■	DRY	■■■
SHOWER GEL	■■■	0,1% - 0,5%	BLOOM	■■■		
SOAP	■■■	0,07% - 0,3%	FOAM	■■■	DRY HAND	■■■
DETERGENT	■■■	0,06% - 0,2%	WET	■■■	DRY	■■■■
SOFTENER	■■■	0,06% - 0,2%	WET	■■■	DRY	■■■■
APC	■■■	0,05% - 0,1%				
CANDLE	■■■	0,1% - 0,4%	COLD WAX	■■■	BURNING	■■■

DID YOU KNOW ?

CALONE® is one of the very first watery molecule in the perfumery industry, invented by Firmenich to launch the new marine fragrance trend in the 1990s.

CARBINOL MUGUET
920100

FLORAL

MUGUET

CHEMICAL SYNTHESIS

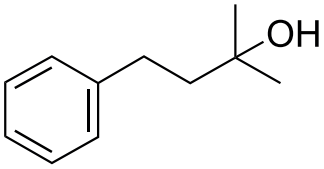
CAS NUMBER	0000103-05-9
REACH NUMBER	01-2120758978-28
FEMA NUMBER	3629

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%

Benzenepropanol,1,1-dimethy





OLFACTIVE DESCRIPTION

A sweet floral, rosy note in the direction of muguet.

PERFUMERY USAGE

The soft floral character of CARBINOL MUGUET makes it an excellent ingredient for building the floral body of a fragrance.

It can be used in a similar manner to Benzyl Salicylate at levels up to 20% - 25% of a fragrance composition.

TENACITY

Lasts 1 day on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- **1 DAY**
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.69
APPEARANCE	LIQUID COULD CRYSTALLIZE
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.31 Pa at 20°C
MOLECULAR WEIGHT	164
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,8% - 2%	TOP AND HEART NOTE			
SHAMPOO	●●●●	0,5% - 2%	WET	●●●●	DRY	●●●
SHOWER GEL	●●●	0,6% - 2%	BLOOM	●●		
SOAP	●●●	0,5% - 2%	FOAM	●●	DRY HAND	●
DETERGENT	●●	0,4% - 2%	WET	●●	DRY	●
SOFTENER	●●●	0,4% - 1%	WET	●●●	DRY	●●
APC	●●	0,2% - 0,7%				
CANDLE	●●●	0,6% - 2%	COLD WAX	●●	BURNING	●●●

DID YOU KNOW ?

CASCALONE®
920000

WATERY

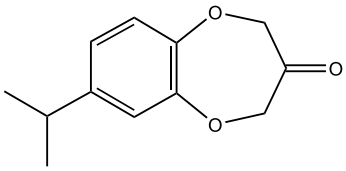
CHEMICAL SYNTHESIS

2H-1,5-Benzodioxepin-3 (4H)-one, 7-(1-methylethyl)-



CAS NUMBER	0950919-28-5
REACH NUMBER	01-2120749830-51
FEMA NUMBER	

GREEN CHEMISTRY SCORE 50 - 70%



OLFACTIVE DESCRIPTION

CASCALONE® is a fresh, aquatic ingredient, with watery, fruity undertones.

A sweet, watery version of CALONE® with a transparent floral signature.

PERFUMERY USAGE

CASCALONE® is used to bring a natural and clean freshwater signature from top to base note.

TENACITY

Lasts 2 weeks on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.58
APPEARANCE	POWDER
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.18 Pa at 20°C
MOLECULAR WEIGHT	206
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	■■■■	0,10% - 0,4%	TOP, HEART AND BASE NOTE
SHAMPOO	■■■	0,02% - 0,06%	WET ■■■ DRY ■■■
SHOWER GEL	■■■	0,03% - 0,1%	BLOOM ■■■
SOAP	■■■	0,02% - 0,07%	FOAM ■■■ DRY HAND ■■■
DETERGENT	■■■	0,02% - 0,06%	WET ■■■ DRY ■■■■
SOFTENER	■■■	0,05% - 0,09%	WET ■■■ DRY ■■■■
APC	■■■	0,01% - 0,02%	
CANDLE	■■■	0,04% - 0,1%	COLD WAX ■■■ BURNING ■■■

DID YOU KNOW ?

This watery molecule comes in the footsteps of Firmenich work initiated in the 1990s on the development of new marine notes and CALONE® analogues.

CEDROXYDE®
922470

WOODY

AMBERY

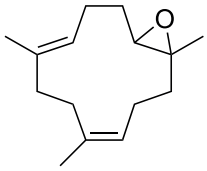
CHEMICAL SYNTHESIS

CAS NUMBER	0071735-79-0
REACH NUMBER	01-2120742322-65
FEMA NUMBER	

GREEN CHEMISTRY SCORE 50 - 70%

13-Oxabicyclo[10.1.0]trideca-4,8-diene, trimethyl-





OLFACTIVE DESCRIPTION

A powerful and complex dry woody note with an ambery nuance.

PERFUMERY USAGE

This distinctive woody note gives elegance and harmony to a wide range of fragrance types.

Besides, it gives exceptional effect in floral, chypre, aromatic and oriental notes.

TENACITY

Lasts 1 week on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.88
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.19 Pa at 20°C
MOLECULAR WEIGHT	221
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,7% - 4%	HEART AND BASE NOTE			
SHAMPOO	●●●	2% - 6%	WET	●●●	DRY	●●●
SHOWER GEL	●●●	0,5% - 3%	BLOOM	●●		
SOAP	●●●	0,3% - 1%	FOAM	●●	DRY HAND	●●
DETERGENT	●●	0,07% - 0,4%	WET	●●	DRY	●
SOFTENER	●●●	0,02% - 0,08%	WET	●●●●	DRY	●●
APC	●●●	0,04% - 0,2%				
CANDLE	●●●	0,05% - 0,4%	COLD WAX	●●●●	BURNING	●●●●

DID YOU KNOW ?

CENTIFOLETHER
922493

FLORAL

CHEMICAL SYNTHESIS

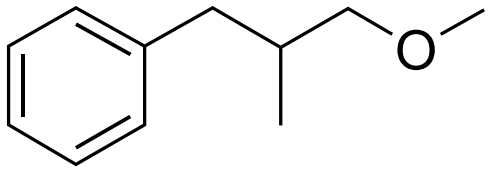
Benzene, (3-methoxy-2-methylpropyl)-



CAS NUMBER	0120811-92-9
REACH NUMBER	01-2120138933-52
FEMA NUMBER	

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

This natural floral, green note has a rose petal character with hints of exotic fruits.

PERFUMERY USAGE

Excellent with both rose and green notes.

Extremely stable including in chlorine bleach. An incredible stability with a so distinctive top note...

TENACITY

Lasts 3 hours on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.57
APPEARANCE	LIQUID
FLASHPOINT	84°C
VAPOUR PRESSURE	12.13 Pa at 20°C
MOLECULAR WEIGHT	164
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,10%	TOP NOTE			
SHAMPOO	●●●	0,09% - 0,4%	WET	●●●●	DRY	●●
SHOWER GEL	●●●	0,08% - 0,6%	BLOOM	●●●		
SOAP	●●●	0,1% - 0,6%	FOAM	●●●	DRY HAND	●●
DETERGENT	●●●	0,7% - 2%	WET	●●●	DRY	●
SOFTENER	●●●	0,2% - 0,5%	WET	●●●	DRY	●
APC	●●●	0,05% - 0,5%				
CANDLE	●●●	0,2% - 0,9%	COLD WAX	●●●●	BURNING	●●

DID YOU KNOW ?

Rosa centifolia (the rose with hundred petals), the famous rose cultivated in Grasse (South of France) and in Morocco inspired the name of CENTIFOLETHER®.

CETALOX®
922560

AMBERY

CHEMICAL SYNTHESIS

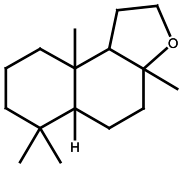
Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-



CAS NUMBER	0003738-00-9
REACH NUMBER	01-2119976315-31
FEMA NUMBER	3471

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

An extremely powerful and elegant ambery note.

PERFUMERY USAGE

CETALOX® gives rich, elegant effects to all areas of perfumery from sheer florals to modern orientals.

Enhanced richness, warmth and depth can be achieved at lower dosages while, at higher levels, it provides exceptional substantivity and performance.

TENACITY

Lasts 1 month on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.83
APPEARANCE	CRYSTALLINE SOLID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.29 Pa at 20°C
MOLECULAR WEIGHT	236
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,8% - 3%	HEART AND BASE NOTE
SHAMPOO	●●●	0,2% - 0,6%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,2% - 1%	BLOOM ●●●
SOAP	●●●	0,1% - 0,4%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●	0,2% - 0,6%	WET ●● DRY ●●●●
SOFTENER	●●●●	0,3% - 2%	WET ●●●● DRY ●●●●
APC	●●●	0,09% - 0,3%	
CANDLE	●●●●	0,2% - 0,5%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

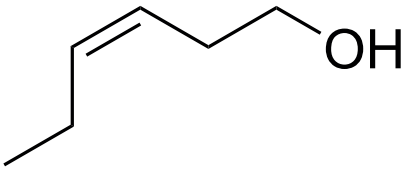
From AMBROX® to CETALOX®, a Firmenich family of ingredients with history and legacy.
1930 Firmenich discovers chemical structure of AMBROX® in natural ambregris.
1939 Nobel prize.
2016 First commercial scale-up of AMBROX® SUPER via white biotech.

CIS-3-HEXENOL NAT
925001

GREEN
WHITE BIOTECHNOLOGY



CAS NUMBER	0000928-96-1
REACH NUMBER	
FEMA NUMBER	2563
RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily



OLFACTIVE DESCRIPTION

Powerful green, fresh, grass and leaf note reminiscent of freshly cut grass.

PERFUMERY USAGE

Natural molecule obtained by biotechnology.
Indispensable to bring natural green freshness in all kinds of fragrances as it is widely found in nature.

TENACITY

Lasts -
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	1.65
APPEARANCE	CLEAR LIQUID
FLASHPOINT	58°C
VAPOUR PRESSURE	83.46 Pa at 20°C
MOLECULAR WEIGHT	100
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS

DID YOU KNOW ?

This ingredient is dual for perfumery and flavor application.

CIS-3-HEXENYL ACETATE NAT
925002

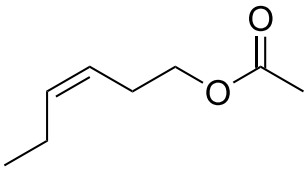
GREEN

FRUITY

WHITE BIOTECHNOLOGY

CAS NUMBER	0003681-71-8
REACH NUMBER	
FEMA NUMBER	2563
RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily





OLFACTIVE DESCRIPTION

Powerful green, fruity, pear and banana note.

PERFUMERY USAGE

Natural molecule obtained by biotechnology.
Indispensable to bring natural green-fruity freshness in all kinds of fragrances as it is widely found in nature.

TENACITY

Lasts -
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.62
APPEARANCE	LIQUID
FLASHPOINT	56°C
VAPOUR PRESSURE	106.12 Pa at 20°C
MOLECULAR WEIGHT	142
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS

CAS NUMBER	0003681-71-8
REACH NUMBER	
FEMA NUMBER	3171

DID YOU KNOW ?

This ingredient is dual for perfumery and flavor application.

CIS-3-HEXENYL CAPROATE NAT
925004

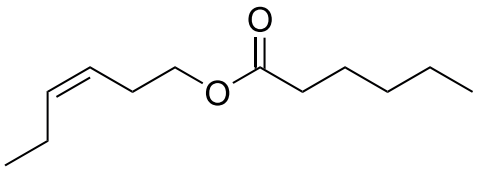
FRUITY

GREEN

WHITE BIOTECHNOLOGY

CAS NUMBER	0031501-11-8
REACH NUMBER	
FEMA NUMBER	3403
RENEWABLE CARBON	100%
BIODEGRADABILITY	Ultimately





OLFACTIVE DESCRIPTION

Fruity, pear.

PERFUMERY USAGE

Can be used to bring fruity green effect to fragrances with tropical fruits, apple, pineapple and flowers accords.

TENACITY

Lasts -
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	-
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.93 Pa at 20°C
MOLECULAR WEIGHT	198
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS

DID YOU KNOW ?

Naturally present in green tea, orange peel oil, guava fruit, purple passion fruit and other fruits.

CIVETTONE
926851

MUSKY

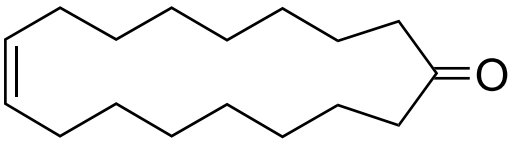
ANIMALIC

CHEMICAL SYNTHESIS

9-Cycloheptadecen-1-one, (Z)-



CAS NUMBER	0000542-46-1
REACH NUMBER	
FEMA NUMBER	3425
RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A warm, sensuous, animalic and musky note.

Very powerful and diffusive.

PERFUMERY USAGE

Extremely tenacious, it has the ability to exalt and fix all kinds of perfumes.

It harmonizes particularly well with floral, aldehydic, chypre, oriental, powdery and animalic notes.

It gives elegant musky effects.

CIVETTONE is one of the cornerstone to civet reconstitution.

TENACITY

Lasts 2 weeks
on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	7.03
APPEARANCE	COULD BE CRYSTALLISED OR LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.02 Pa at 20°C
MOLECULAR WEIGHT	250
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,02% - 0,3%	HEART AND BASE NOTE
SHAMPOO	●●●	TRACES - 0,01%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	TRACES - 0,03%	BLOOM ●●●
SOAP	●●●	TRACES - 0,01%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●	TRACES	WET ●●● DRY ●●
SOFTENER	●●●●	TRACES	WET ●●●● DRY ●●●
APC	●●●	TRACES	
CANDLE	●●●●	TRACES	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

CLEARWOOD®
970953

WOODY

WHITE BIOTECHNOLOGY



CAS NUMBER	1450625-49-6
REACH NUMBER	01-2119967775-18
FEMA NUMBER	
RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily

OLFACTIVE DESCRIPTION

A soft and clean version of a patchouli profile.

Created from white biotechnology, CLEARWOOD® delivers all the rewards of modern ingredient design. Beaming with light, it offers the creamy warmth of amber and a dark woody character reminiscent of patchouli.

PERFUMERY USAGE

Launched in 2014 and first ever White Biotech Ingredient within the perfumery industry, CLEARWOOD® is a truly inspiring ingredient made possible by the genius of science, and rendered unforgettable by the perfumers' intuition.

CLEARWOOD® can be used like Patchouli Essential Oil or as a new woody building block at higher dosages.

Although rich in patchoulol, CLEARWOOD® will not replace natural patchouli essence. It will complement it as a new ingredient, a new building block.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.31
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	2.51 Pa at 20°C
MOLECULAR WEIGHT	-
BOILING POINT	> 40°C

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	2% - 8%	HEART AND BASE NOTE			
SHAMPOO	●●●●	1% - 3%	WET	●●●	DRY	●●
SHOWER GEL	●●●●	1% - 4%	BLOOM	●●●		
SOAP	●●●●	1% - 4%	FOAM	●●●	DRY HAND	●●●
DETERGENT	●●●●	0,6% - 2%	WET	●●●	DRY	●●●
SOFTENER	●●●●	0,8% - 3%	WET	●●●●	DRY	●●●
APC	●●●●	0,2% - 0,9%				
CANDLE	●●●●	2% - 7%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

Depending on the country, CLEARWOOD® is identified either by the CAS number 84238-39-1 (China, Europe and Taiwan, China) or by the CAS number 1450625-49-6 (Australia, Philippines, South Korea, USA and Canada).

CORANOL
928130

FLORAL

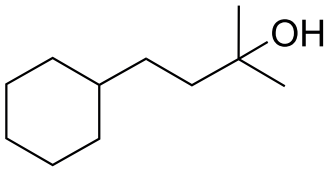
MUGUET

CHEMICAL SYNTHESIS

Cyclohexanepropanol, 2,2-dimethyl-



CAS NUMBER	0083926-73-2
REACH NUMBER	01-0000016725-66
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

A nice flowery note reminiscent of Linalol ex-coriander.

PERFUMERY USAGE

CORANOL is much longer-lasting than Linalol.

Very stable, it is an excellent building block.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.93
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.79 Pa at 20°C
MOLECULAR WEIGHT	170
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	2% - 7%	TOP AND HEART NOTE
SHAMPOO	●●●	2% - 6%	WET ●●● DRY ●●
SHOWER GEL	●●●	2% - 7%	BLOOM ●●●
SOAP	●●●	2% - 6%	FOAM ●● DRY HAND ●
DETERGENT	●●	0,7% - 4%	WET ●●● DRY ●
SOFTENER	●●●	2% - 6%	WET ●●●● DRY ●●
APC	●●	4% - 14%	
CANDLE	●●●	2% - 6%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

CYCLOMETHYLENE CITRONELLOL
937001

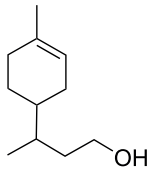
FLORAL

CHEMICAL SYNTHESIS

3-Cyclohexene-1-propanol, .gamma.,4-dimethyl-



CAS NUMBER	0015760-18-6
REACH NUMBER	01-2120030217-69
FEMA NUMBER	
RENEWABLE CARBON	>50%
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

Soft floral note reminding closely muguet and rose's petal character.

PERFUMERY USAGE

CYCLOMETHYLENE CITRONELLOL can give soft floral effects in a very wide range of perfume types.

It develops and harmonizes the individual notes of almost any perfume.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.46
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.19 Pa at 20°C
MOLECULAR WEIGHT	168
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●	0,2% - 0,7%	TOP AND HEART NOTE
SHAMPOO	●●●●	0,7% - 3%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	1% - 5%	BLOOM ●●●
SOAP	●●●	0,9% - 5%	FOAM ●● DRY HAND ●●
DETERGENT	●●●	0,5% - 2%	WET ●●●● DRY ●
SOFTENER	●●●	0,3% - 0,7%	WET ●●● DRY ●●
APC	●●	0,2% - 0,4%	
CANDLE	●●	N/A - N/A	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

CYCLOPIDENE
937160

FLORAL

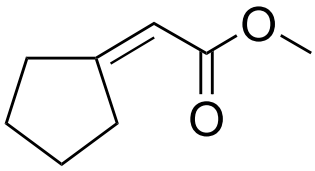
FRUITY

CHEMICAL SYNTHESIS

Acetic acid, cyclopentylidene-, methyl ester



CAS NUMBER	0040203-73-4
REACH NUMBER	01-2120065587-45
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A very powerful floral modifier that reminds ylang-ylang.

PERFUMERY USAGE

CYCLOPIDENE gives diffusion and lift.

It combines the salicylate - cresyl harmony that exists in many white floral accords.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.02
APPEARANCE	LIQUID
FLASHPOINT	69°C
VAPOUR PRESSURE	65.33 Pa at 20°C
MOLECULAR WEIGHT	141
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,08%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,04% - 0,2%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	0,4% - 0,9%	BLOOM	●●●		
SOAP	●●●	0,8% - 1%	FOAM	●●●●	DRY HAND	●●
DETERGENT	●●●	0,09% - 0,2%	WET	●●●	DRY	●
SOFTENER	●●●●	0,03% - 0,06%	WET	●●●●	DRY	●
APC	●●●	0,2% - 0,3%				
CANDLE	●●●	0,07% - 0,1%	COLD WAX	●●	BURNING	●●

DID YOU KNOW ?

CYCLOSIA®
937250

FLORAL

MUGUET

CHEMICAL SYNTHESIS

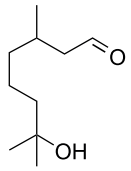
Octanal, 7-hydroxy-3, 7-dimethyl-



CAS NUMBER	0000107-75-5
REACH NUMBER	01-2119973482-31
FEMA NUMBER	2583

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

A smooth and flowery note whose diffusion sets it apart from Hydroxycitronellal's.

PERFUMERY USAGE

CYCLOSIA® can be used in all perfume types where muguet or white floral effects are desired.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.17
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.45 Pa at 20°C
MOLECULAR WEIGHT	172
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●	0,2% - 2%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,02% - 0,2%	WET	●●●	DRY	●●●
SHOWER GEL	●●●●	0,08% - 0,8%	BLOOM	●●●		
SOAP	●●●●	0,07% - 0,6%	FOAM	●●	DRY HAND	●
DETERGENT	●●	0,02% - 0,2%	WET	●●●	DRY	●
SOFTENER	●●●●	TRACES - 0,05%	WET	●●●●	DRY	●●
APC	●●	0,05% - 0,2%				
CANDLE	●●●	0,02% - 0,06%	COLD WAX	●●●	BURNING	●●

DID YOU KNOW ?

The fascinating story of Firmenich molecules starts in 1905 with the discovery and synthesis of Cyclosia®.

This major achievement contributes to the development of organic chemistry in our industry.

DAMAROSE ALPHA
937449

FLORAL

CHEMICAL SYNTHESIS

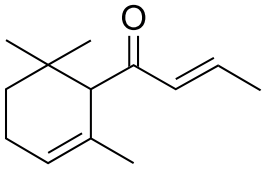
(+-)-(2E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten- 1-one



CAS NUMBER	0024720-09-0
REACH NUMBER	01-2120105799-47
FEMA NUMBER	3659

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

Floral-rose, fruity.

It offers more natural and petal-like notes than DAMASCONE ALPHA.

PERFUMERY USAGE

Classic ALPHA DAMASCONE note, for consumer applications, soap especially, or encapsulations.

A version without stabilizer is available under reference 937501 DAMAROSE ALPHA FAB.

TENACITY

Lasts 1 week on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- **1 WEEK**
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.65
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.43 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,02% - 0,07%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,02% - 0,1%	WET	●●●	DRY	●●
SHOWER GEL	●●●	0,02% - 0,07%	BLOOM	●●●		
SOAP	●●●	0,02% - 0,1%	FOAM	●●●	DRY HAND	●●
DETERGENT	●●●	0,06% - 0,09%	WET	●●●	DRY	●
SOFTENER	●●●●	TRACES	WET	●●●●	DRY	●●
APC	●●	TRACES				
CANDLE	●●●	TRACES - 0,05%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

Their work is still widely recognized as a key discovery process for our industry.

DAMASCENONE
937450

FLORAL

FRUITY

CHEMICAL SYNTHESIS

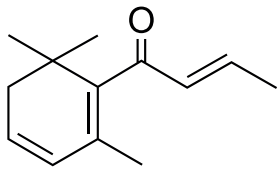
CAS NUMBER	0023696-85-7
REACH NUMBER	01-2120105798-49
FEMA NUMBER	3420

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%

2-Buten-1-one, 1-(2,6,6-trimethyl-1, 3-cyclohexadien-1-yl)-





OLFACTIVE DESCRIPTION

A very powerful floral fruity note.

DAMASCENONE smells intensely natural, rose, plum, berry and tobacco.

PERFUMERY USAGE

DAMASCENONE gives attractive and beautiful nuances to all fragrance types, even at low dosages.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.33
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.85 Pa at 20°C
MOLECULAR WEIGHT	190
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,03% - 0,10%	TOP AND HEART NOTE
SHAMPOO	●●●	0,02% - 0,1%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,03% - 0,1%	BLOOM ●●●
SOAP	●●●●	0,03% - 0,2%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●	0,03% - 0,2%	WET ●●● DRY ●
SOFTENER	●●●●	0,02% - 0,2%	WET ●●●● DRY ●●
APC	●●●	0,01% - 0,05%	
CANDLE	●●●	0,03% - 0,2%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

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DAMASCENONE TOTAL
937459

FLORAL

FRUITY

CHEMICAL SYNTHESIS

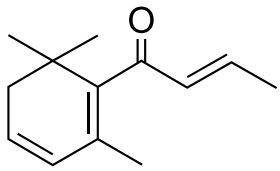
CAS NUMBER	0023696-85-7
REACH NUMBER	01-2120105798-49
FEMA NUMBER	3420

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%

2-Buten-1-one, 1-(2,6,6-trimethyl-1, 3-cyclohexadien-1-yl)-





OLFACTIVE DESCRIPTION

A very powerful floral fruity note.

DAMASCENONE TOTAL smells intensely natural, rose, plum, berry and tobacco (close to DAMASCENONE).

PERFUMERY USAGE

DAMASCENONE TOTAL gives attractive and beautiful nuances to all fragrance types even at low dosages.

It can be used like DAMASCENONE.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.27
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.85 Pa at 20°C
MOLECULAR WEIGHT	190
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,04% - 0,1%	TOP AND HEART NOTE
SHAMPOO	●●●	0,08% - 0,4%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,07% - 0,2%	BLOOM ●●●
SOAP	●●●	0,05% - 0,2%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●	0,1% - 0,6%	WET ●●● DRY ●
SOFTENER	●●●●	0,1% - 0,5%	WET ●●●● DRY ●●
APC	●●●	0,05% - 0,2%	
CANDLE	●●●	0,05% - 0,2%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

Their work is still widely recognized as a key discovery process for our industry.

DAMASCONE ALPHA
937470

FLORAL

FRUITY

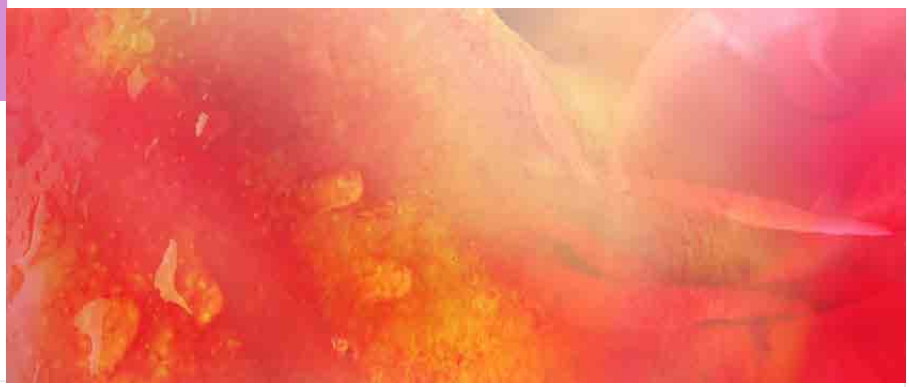
CHEMICAL SYNTHESIS

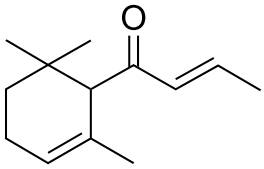
CAS NUMBER	0024720-09-0
REACH NUMBER	01-2120105799-47
FEMA NUMBER	3659

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 70 - 100%

2-Buten-1-one, 1-(2,6,6-trimethyl-2- cyclohexen-1-yl)-, (E)-





OLFACTIVE DESCRIPTION

DAMASCONE ALPHA offers a very complex profile of rose, apple, blackcurrant and mint with a rich plum undertone.

Very diffusive and distinctive floral fruity note.

PERFUMERY USAGE

Excellent results can be obtained with aldehydic, floral, woody, herbal, citrus and fruity notes.

DAMASCONE ALPHA can give unique effects to compositions.

A version without stabilizer is available under reference DAMASCONE ALPHA FAB 937471.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.65
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.43 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,04% - 0,2%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,09% - 0,3%	WET	●●●	DRY	●●
SHOWER GEL	●●●	0,05% - 0,2%	BLOOM	●●●		
SOAP	●●●	0,06% - 0,2%	FOAM	●●●	DRY HAND	●●
DETERGENT	●●●	0,06% - 0,3%	WET	●●●	DRY	●
SOFTENER	●●●●	0,07% - 0,2%	WET	●●●●	DRY	●●
APC	●●	0,06% - 0,2%				
CANDLE	●●●	0,09% - 0,3%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

Their work is still widely recognized as a key discovery process for our industry.

DAMASCONE BETA FAB
939697

FLORAL

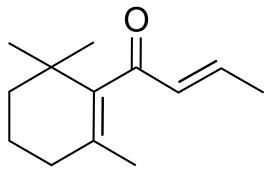
FRUITY

CHEMICAL SYNTHESIS

2-Buten-1-one, 1-(2,6,6-trimethyl-1- cyclohexen-1-yl)-, (E)-



CAS NUMBER	0023726-91-2
REACH NUMBER	01-2120094433-55
FEMA NUMBER	3243
BIODEGRADABILITY	Ultimately
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Floral, rose, fruity, plum, apple, liquorous.

A very powerful fruity floral note. DAMASCONE BETA FAB is a complex odor of rose, plum, blackcurrant, wine and tobacco.

PERFUMERY USAGE

DAMASCONE BETA FAB gives a very distinctive character to any perfume. It is particularly valuable in rose but has also interesting effects in florals, woody, herbal, aldehydic and fruity perfumes.

A version with stabilizer is available under reference DAMASCONE BETA 939692.

TENACITY

Lasts 2 days on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.63
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.97 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,01% - 0,05%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,07% - 0,3%	WET	●●	DRY	●●
SHOWER GEL	●●●	0,02% - 0,1%	BLOOM	●●●		
SOAP	●●●	0,03% - 0,2%	FOAM	●●	DRY HAND	●●●
DETERGENT	●●●	0,04% - 0,2%	WET	●●●	DRY	●
SOFTENER	●●●●	0,03% - 0,2%	WET	●●●●	DRY	●●
APC	●●●	0,02% - 0,08%				
CANDLE	●●	0,06% - 0,2%	COLD WAX	●●	BURNING	●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

Their work is still widely recognized as a key discovery process for our industry.

DAMASCONE DELTA
937856

FLORAL

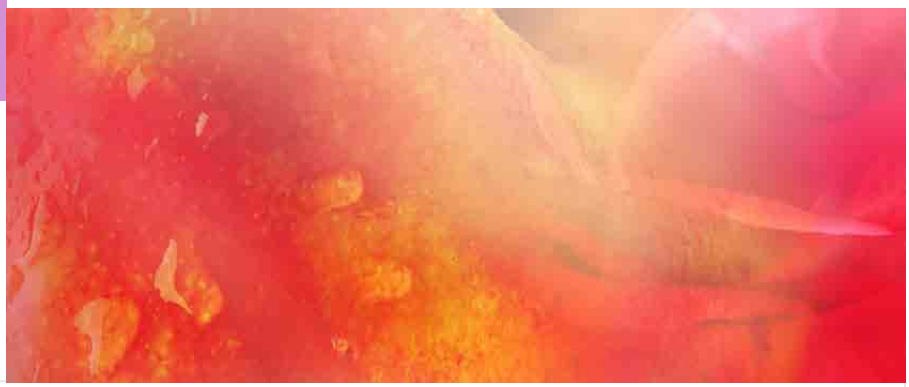
FRUITY

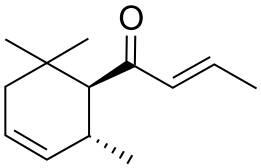
CHEMICAL SYNTHESIS

CAS NUMBER	0057378-68-4
REACH NUMBER	01-2119535122-53
FEMA NUMBER	3622

GREEN CHEMISTRY SCORE 70 - 100%

2-Buten-1-one, 1-(2,6,6-trimethyl-3- cyclohexen-1-yl)-





OLFACTIVE DESCRIPTION

DAMASCONE DELTA offers a very complex fruity and rosy profile with plum undertone.

The note is diffusive.

PERFUMERY USAGE

DAMASCONE DELTA gives unique floral effects.

Excellent results can be obtained with aldehydic, floral, woody, herbal, citrus and fruity notes.

A very cost effective Rose Ketone.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.13
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	2.09 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,03% - 0,1%	TOP AND HEART NOTE
SHAMPOO	●●●	0,1% - 0,4%	WET ●●●● DRY ●●
SHOWER GEL	●●●	0,1% - 0,3%	BLOOM ●●●●
SOAP	●●●●	0,1% - 0,4%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●	0,3% - 1%	WET ●●● DRY ●
SOFTENER	●●●●	0,3% - 0,7%	WET ●●●● DRY ●●
APC	●●●●	0,1% - 0,3%	
CANDLE	●●●	0,2% - 0,4%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

Their work is still widely recognized as a key discovery process for our industry.

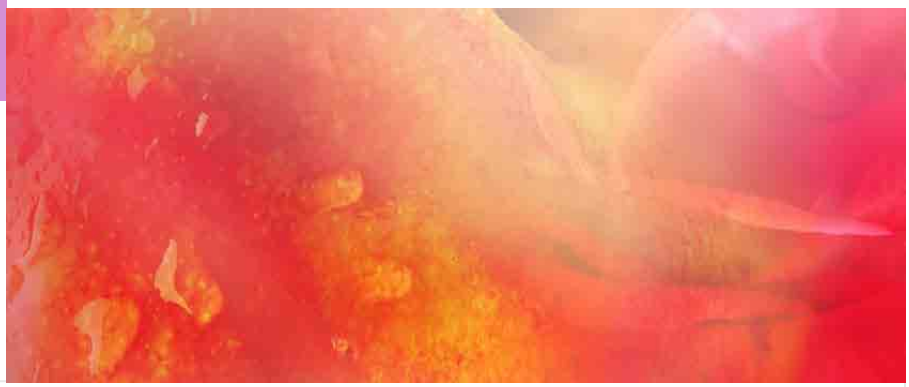
DAMASCONE GAMMA
944580

FLORAL

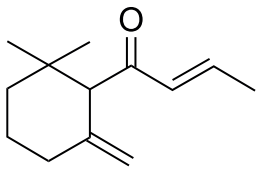
FRUITY

CHEMICAL SYNTHESIS

2-Buten-1-one, 1-(2,2-dimethyl-6- methylenecyclohexyl)-



CAS NUMBER	0035087-49-1
REACH NUMBER	01-0000020133-85
FEMA NUMBER	
BIODEGRADABILITY	Ultimately
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

A diffusive fruity, floral and thuyone-like note, with slight tobacco undertones.

The most distinctive of all Damascones.

PERFUMERY USAGE

DAMASCONE GAMMA gives unique effects.

Excellent results can be obtained with aldehydic, floral, woody, herbal, citrus and fruity notes.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.11
APPEARANCE	LIQUID
FLASHPOINT	98°C
VAPOUR PRESSURE	1.89 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,01%	TOP AND HEART NOTE			
SHAMPOO	●●●	TRACES	WET	●●●	DRY	●●
SHOWER GEL	●●●	TRACES - 0,03%	BLOOM	●●●		
SOAP	●●●	TRACES - 0,03%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●	TRACES	WET	●●	DRY	●
SOFTENER	●●●●	TRACES	WET	●●●●	DRY	●●
APC	●●	TRACES				
CANDLE	●●●	TRACES - 0,05%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

1965: Firmenich's team of P. Ruzicka, Dr. Demole analyzed the Bulgarian rose essence, found the first rose ketones and discovered the way to synthetize them.

Their work is still widely recognized as a key discovery process for our industry.

DARTANOL®
937490

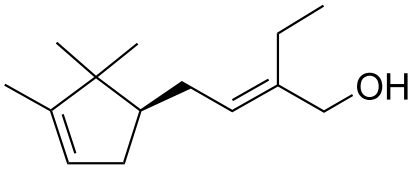
WOODY

CHEMICAL SYNTHESIS

2-Buten-1-ol, 2-ethyl-4- (2,2,3-trimethyl-3-cyclopenten-1-yl)-



CAS NUMBER	0028219-61-6
REACH NUMBER	01-2119529224-45
FEMA NUMBER	
RENEWABLE CARBON	>50%
BIODEGRADABILITY	Ultimately
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

DARTANOL® is a clean, sophisticated creamy sandalwood note with slight cedarwood characteristics.

It is softer and more cosmetic than POLYSANTOL®.

PERFUMERY USAGE

DARTANOL® with its really good substantivity is often used in combination with the more powerful POLYSANTOL® and FIRSANTOL® to get a creamy cosmetic natural effect.

It offers an excellent cost performance in all applications.

TENACITY

Lasts 3 weeks
on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.44
APPEARANCE	LIQUID
FLASHPOINT	93°C
VAPOUR PRESSURE	0.00 Pa at 20°C
MOLECULAR WEIGHT	208
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	1% - 4%	HEART AND BASE NOTE			
SHAMPOO	●●●●	0,9% - 3%	WET	●●●●	DRY	●●●
SHOWER GEL	●●●●	0,8% - 2%	BLOOM	●●●●		
SOAP	●●●●	0,8% - 2%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●●	1% - 4%	WET	●●●	DRY	●●●
SOFTENER	●●●●	1% - 3%	WET	●●●●	DRY	●●●
APC	●●●	0,5% - 2%				
CANDLE	●●●●	0,6% - 3%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

Firmenich research allowed the advent of woody sandalwood notes in the perfumery industry, until then limited by the natural production of natural sandalwood.

DELPHOL HC®
937165

FLORAL

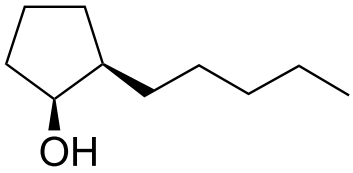
WHITE FLOWER

CHEMICAL SYNTHESIS

2-Pentylcyclopentan-1-ol



CAS NUMBER	0084560-00-9
REACH NUMBER	01-2120121430-77
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

DELPHOL® HC has a floral jasmine character with a slight cis-jasmone note.

It is reminiscent of magnolia and tea with a fruity undertone.

PERFUMERY USAGE

DELPHOL HC® is excellent in floral and fruity fragrances. It enriches white floral notes and is exceptionally stable.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.59
APPEARANCE	LIQUID
FLASHPOINT	95°C
VAPOUR PRESSURE	40.00 Pa at 20°C
MOLECULAR WEIGHT	156
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,03% - 0,2%	TOP AND HEART NOTE
SHAMPOO	●●●	0,2% - 1,0%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	0,1% - 0,6%	BLOOM ●●●
SOAP	●●●●	0,3% - 2%	FOAM ●●● DRY HAND ●●●
DETERGENT	●●●●	0,7% - 4%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,4% - 1%	WET ●●● DRY ●●●
APC	●●●	0,7% - 4%	
CANDLE	●●●	0,4% - 1%	COLD WAX ●●●● BURNING ●●●●

DID YOU KNOW ?

DELPHOL® HC is part of HEDIONE® family.

HEDIONE® was discovered by Firmenich scientist, Dr.Edouard Demole in 1958 as part of the methyl jasmonate synthesis.

HEDIONE® brings to mind the old adage, "He who wishes to be heard will always whisper".

DELPHONE
937850

FLORAL

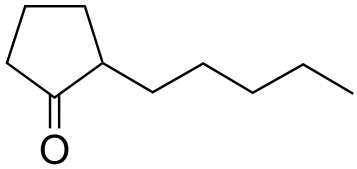
FRUITY

CHEMICAL SYNTHESIS

Cyclopentanone, 2-pentyl-



CAS NUMBER	0004819-67-4
REACH NUMBER	01-2120121428-62
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

A powerful, diffusive and complex note that is predominantly floral jasmine with celery seed and lactonic undertones.

PERFUMERY USAGE

DELPHONE can be used in small amounts to give body and diffusivity to a wide range of creations but it is mainly used as a white floral booster.

Its lactonic aspect gives interesting effects in fruity notes such as peach, mango and other succulent fruits.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.62
APPEARANCE	LIQUID
FLASHPOINT	86°C
VAPOUR PRESSURE	11.71 Pa at 20°C
MOLECULAR WEIGHT	155
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●	TRACES - 0,02%	TOP AND HEART NOTE			
SHAMPOO	●●●	0,02% - 0,1%	WET	●●●	DRY	●●●
SHOWER GEL	●●	0,03% - 0,2%	BLOOM	●●●		
SOAP	●●●	0,10% - 0,8%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●●	0,2% - 0,7%	WET	●●●●	DRY	●
SOFTENER	●●●●	0,03% - 0,1%	WET	●●●●	DRY	●●
APC	●●●	0,1% - 0,7%				
CANDLE	●●●●	0,7% - 2%	COLD WAX	●●●●	BURNING	●●

DID YOU KNOW ?

DELPHONE® is part of HEDIONE® family.

HEDIONE® was discovered by Firmenich scientist, Dr.Edouard Demole in 1958 as part of the methyl jasmonate synthesis.

HEDIONE® brings to mind the old adage, "He who wishes to be heard will always whisper".

DIHYDROEUGENOL
938520

SPICY

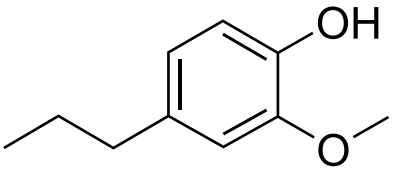
CHEMICAL SYNTHESIS

Phenol, 2-methoxy-4-propyl-



CAS NUMBER	0002785-87-7
REACH NUMBER	01-2120223684-57
FEMA NUMBER	3598

RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

A drier, fresher and less sweet edible odor than Eugenol.

It is very diffusive and recalls the freshness of bay leaf and pimento leaf oils.

PERFUMERY USAGE

It brings freshness and more floral perfumery effects compared to Eugenol. It has also more top note impact.

DIHYDROEUGENOL goes very well in masculine notes, fougere, chypre and orientals.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.39
APPEARANCE	LIQUID COULD CRYSTALLIZE
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.15 Pa at 20°C
MOLECULAR WEIGHT	166
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,05% - 0,6%	TOP AND HEART NOTE
SHAMPOO	●●●●	0,3% - 0,8%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,2% - 1%	BLOOM ●●●
SOAP	●●●	0,2% - 1%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●	0,1% - 0,6%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,10% - 0,4%	WET ●●●● DRY ●●●●
APC	●●●	0,06% - 0,5%	
CANDLE	●●●	2% - 8%	COLD WAX ●●●● BURNING ●●●

DID YOU KNOW ?

DOREMOX®
939668

FLORAL

GREEN

CHEMICAL SYNTHESIS

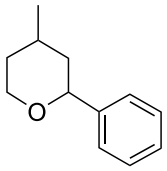
Tetrahydro-4-methyl-2-phenyl-2H-pyran



CAS NUMBER	0149713-23-5
REACH NUMBER	01-2120060872-55
FEMA NUMBER	

BIODEGRADABILITY: Partially

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

Rose, geranium, green, herbal, fruity (pear) notes.

A powerful and performant rosy note that is more complex than Rose Oxide and more refined than Diphenyl Oxide.

PERFUMERY USAGE

DOREMOX® combines well with many floral perfumes as well as with aromatic, herbal, citrus and fruity notes.

It gives fresh diffusive effects when used at levels around 1%.

TENACITY

Lasts 2 days on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.47
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.33 Pa at 20°C
MOLECULAR WEIGHT	176
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES	TOP NOTE			
SHAMPOO	●●●●	0,2% - 0,7%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	0,04% - 0,2%	BLOOM	●●●		
SOAP	●●●●	0,2% - 0,6%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●●	0,3% - 1%	WET	●●●	DRY	●●●
SOFTENER	●●●●	1,0% - 3%	WET	●●●●	DRY	●●●●
APC	●●	0,09% - 0,6%				
CANDLE	●●●	0,07% - 0,4%	COLD WAX	●●●	BURNING	●●

DID YOU KNOW ?

DYNASCONE®
939745

GREEN

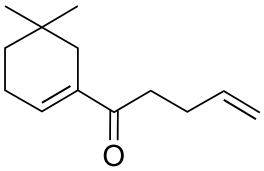
FLORAL

CHEMICAL SYNTHESIS

4-Penten-1-one, 1-(5,5-dimethyl-1- cyclohexen-1-yl)-



CAS NUMBER	0056973-85-4
REACH NUMBER	01-2120739840-52
FEMA NUMBER	
BIODEGRADABILITY	Partially
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Green, fruity, pungent, floral.

An extremely powerful and diffusive ingredient reminiscent of Galbanum, with a green pineapple and hyacinth character.

PERFUMERY USAGE

DYNASCONE® is used in all types of fragrances to give unique green, floral and fruity effects.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.89
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.44 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,04% - 0,1%	TOP AND HEART NOTE			
SHAMPOO	●●●●	0,06% - 0,2%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●●	0,06% - 0,2%	BLOOM	●●●●		
SOAP	●●●●	0,06% - 0,2%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●●	0,08% - 0,2%	WET	●●●●	DRY	●
SOFTENER	●●●●	0,07% - 0,2%	WET	●●●●	DRY	●●●
APC	●●●	0,07% - 0,2%				
CANDLE	●●●	0,10% - 0,3%	COLD WAX	●●	BURNING	●●

DID YOU KNOW ?

Together with NEOBUTENONE® ALPHA, DYNASCONE® 's discovery is one of the cornerstones of Firmenich inventions in the green molecules family as well as in the history of Perfumery.

EXALTENONE
942008

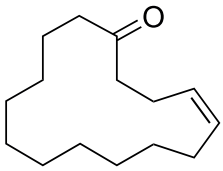
MUSKY

CHEMICAL SYNTHESIS

4-Cyclopentadecen-1-one, (Z)-



CAS NUMBER	0014595-54-1
REACH NUMBER	01-2120711772-59
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A nice musky-animalic note which resembles natural musk Tonkin.

PERFUMERY USAGE

EXALTENONE brings an elegant creamy, musky effect.

Especially interesting effects can be achieved at low levels with floral, fruity and gourmand compositions.

It has excellent performance in hair, skin and cloth.

TENACITY

Lasts 3 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.36
APPEARANCE	COULD BE CRYSTALLISED OR LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.04 Pa at 20°C
MOLECULAR WEIGHT	222
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	■■■□	0,3% - 1%	HEART AND BASE NOTE			
SHAMPOO	■■■□	0,07% - 0,2%	WET	■■■□	DRY	■■■□
SHOWER GEL	■■□	0,4% - 1%	BLOOM	■■■□		
SOAP	■■□	0,08% - 0,5%	FOAM	■■□	DRY HAND	■■□
DETERGENT	■■■□	0,02% - 0,04%	WET	■■□	DRY	■■□
SOFTENER	■■■□	0,06% - 0,1%	WET	■■■□	DRY	■■■□
APC	■■□	0,03% - 0,06%				
CANDLE	■■■□	0,4% - 0,9%	COLD WAX	■■■□	BURNING	■□

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk

EXALTOLIDE®
941962

MUSKY

CHEMICAL SYNTHESIS

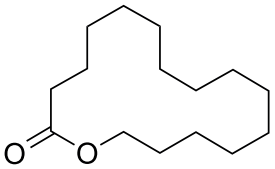
Oxacyclohexadecan-2-one



CAS NUMBER	0000106-02-5
REACH NUMBER	01-2119987323-31
FEMA NUMBER	2840

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

An extremely fine and elegant musk.

EXALTOLIDE® is one of the finest synthetic musk notes and possesses a very natural quality.

PERFUMERY USAGE

EXALTOLIDE® adds depth and roundness to a wide variety of creations.

It offers synergy on the bouquet of a fragrance.

It has an especially sensual effect on skin.

TENACITY

Lasts 2 weeks
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	7.2
APPEARANCE	SOLID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.00 Pa at 20°C
MOLECULAR WEIGHT	240
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	■■■■	2% - 6%	HEART AND BASE NOTE			
SHAMPOO	■■■	0,4% - 2%	WET	■■■■	DRY	■■■■
SHOWER GEL	■■■	0,9% - 3%	BLOOM	■■■■		
SOAP	■■■	0,2% - 2%	FOAM	■■■■	DRY HAND	■■■
DETERGENT	■■■	0,06% - 0,7%	WET	■■■	DRY	■■
SOFTENER	■■■■	0,2% - 1%	WET	■■■■	DRY	■■■
APC	■■■	0,04% - 0,7%				
CANDLE	■■■	0,3% - 2%	COLD WAX	■■■	BURNING	■■■

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

EXALTOLIDE® TOTAL
935985

MUSKY

CHEMICAL SYNTHESIS

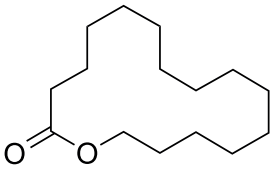
Oxacyclohexadecan-2-one



CAS NUMBER	0000106-02-5
REACH NUMBER	01-2119987323-31
FEMA NUMBER	2840

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

This quality of EXALTOLIDE® is an extremely fine and elegant musk but more cost effective.

EXALTOLIDE® is one of the finest synthetic musk notes that possesses a very natural quality.

PERFUMERY USAGE

EXALTOLIDE® TOTAL adds depth and roundness to a wide variety of creations.

It offers synergy on the bouquet of a fragrance.

It has an especially sensual effect on skin.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	7.2
APPEARANCE	SOLID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.00 Pa at 20°C
MOLECULAR WEIGHT	240
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	2% - 7%	HEART AND BASE NOTE
SHAMPOO	●●●	2% - 6%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	2% - 9%	BLOOM ●●●●
SOAP	●●●	0,9% - 6%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●	1% - 9%	WET ●●● DRY ●●
SOFTENER	●●●●	3% - 13%	WET ●●●● DRY ●●●
APC	●●●	0,1% - 1%	
CANDLE	●●●	0,8% - 3%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

FIRASCONE®
942551

FLORAL

ROSE

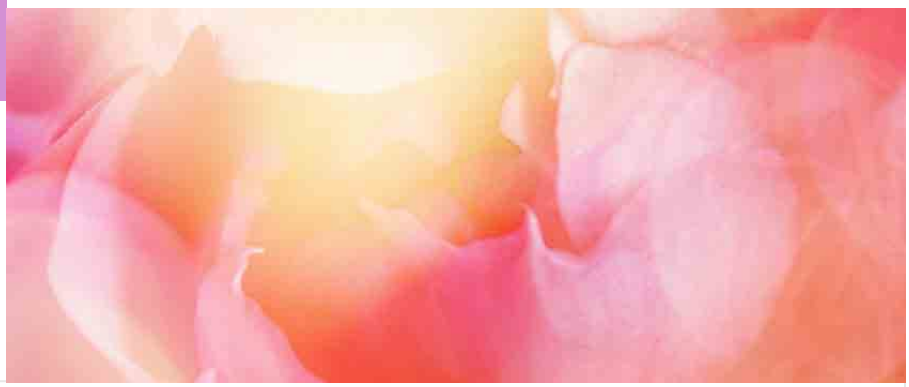
CHEMICAL SYNTHESIS

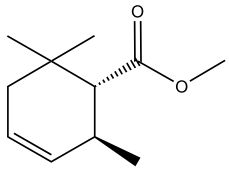
CAS NUMBER	0815580-59-7
REACH NUMBER	01-0000019176-68
FEMA NUMBER	

BIODEGRADABILITY: Partially

GREEN CHEMISTRY SCORE: 50 - 70%

3-Cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester





OLFACTIVE DESCRIPTION

Rosy-fruity, Damascone, saffron note.

The closest olfactive profile to naturally occurring Damascone, among all the Damascone esters.

PERFUMERY USAGE

FIRASCONE® is the closest cyclogeranate to the entire palette of rose ketones.

Structured to perfection with subtle notes of saffron, it provides an endless source of inspirations for rosy and fruity creations.

Due to its clean regulatory profile (cyclo-geraniate), FIRASCONE® can be used like traditional Damascones, without the dosage limitations.

TENACITY

Lasts 3 hours on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.63
APPEARANCE	LIQUID
FLASHPOINT	74°C
VAPOUR PRESSURE	-
MOLECULAR WEIGHT	182
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	■■■	0,2% - 0,6%	TOP AND HEART NOTE
SHAMPOO	■■■	0,2% - 0,4%	WET ■■■ DRY ■■
SHOWER GEL	■■■	0,2% - 1%	BLOOM ■■■
SOAP	■■■	0,1% - 0,4%	FOAM ■■■ DRY HAND ■■
DETERGENT	■■■	0,2% - 0,7%	WET ■■■ DRY ■■
SOFTENER	■■■	0,2% - 0,5%	WET ■■■ DRY ■■
APC	■■■	0,2% - 0,4%	
CANDLE	■■■	0,5% - 1%	COLD WAX ■■■■ BURNING ■■■

DID YOU KNOW ?

Firmenich is recognized for its rose ketones which are now under the scope of IFRA limitation due to sensitizing effects.
Corresponding esters are not sensitizing and Firmenich has developped many patented synthetics in this range. (Cyclo-geraniates)

FIRSANTOL®
942596

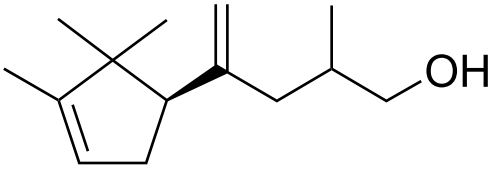
WOODY

CHEMICAL SYNTHESIS

4-Penten-1-ol, 2-methyl-4-(2,2,3- trimethyl-3-cyclopenten-1-yl)-



CAS NUMBER	0104864-90-6
REACH NUMBER	01-0000018184-72
FEMA NUMBER	
RENEWABLE CARBON	>50%
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Very powerful and natural sandalwood note.

PERFUMERY USAGE

FIRSANTOL® can be used in any type of fragrances to give a powerful sandalwood touch.

Tenacity is improved with a very natural sandalwood aspect.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.43
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.08 Pa at 20°C
MOLECULAR WEIGHT	208
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,3% - 2%	HEART AND BASE NOTE			
SHAMPOO	●●●●	0,04% - 0,3%	WET	●●●●	DRY	●●●
SHOWER GEL	●●●●	0,04% - 0,5%	BLOOM	●●●●		
SOAP	●●●●	0,03% - 0,2%	FOAM	●●●	DRY HAND	●●●●
DETERGENT	●●●	0,05% - 0,2%	WET	●●	DRY	●●●
SOFTENER	●●●●	0,04% - 0,2%	WET	●●●●	DRY	●●●
APC	●●●	0,04% - 0,2%				
CANDLE	●●●●	0,06% - 0,5%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

Firmenich research allowed the advent of woody sandalwood notes in the perfumery industry, until then limited by the natural production of natural sandalwood.

FLOROL®
966458

FLORAL

MUGUET

CHEMICAL SYNTHESIS

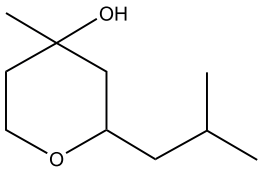
2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2- methylpropyl)-



CAS NUMBER	0063500-71-0
REACH NUMBER	01-0000015458-64
FEMA NUMBER	

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

Fresh, soft and natural floral note reminiscent of muguet.

PERFUMERY USAGE

FLOROL® can be used in almost all perfume types where it gives elegant floral diffusion without changing the character of the fragrance.

It is a very stable and substantive building block that can also be used to replace less stable floral aldehydes.

TENACITY

Lasts 3 days on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.22
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.95 Pa at 20°C
MOLECULAR WEIGHT	173
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	6% - 21%	TOP AND HEART NOTE
SHAMPOO	●●●	N/A - N/A	WET ●●● DRY ●
SHOWER GEL	●●	N/A - N/A	BLOOM ●●
SOAP	●●●	N/A - N/A	FOAM ●●● DRY HAND ●
DETERGENT	●●	N/A - N/A	WET ●● DRY ●
SOFTENER	●●●	N/A - N/A	WET ●●●● DRY ●●
APC	●●●●	N/A - N/A	
CANDLE	●●	N/A - N/A	COLD WAX ●● BURNING ●●●

DID YOU KNOW ?

Part of Firmenich concept "BEYOND MUGUET".

FRUCTALATE®
943871

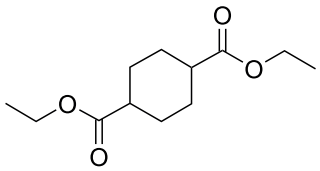
FRUITY

CHEMICAL SYNTHESIS

1,4-Cyclohexanedicarboxylic acid, diethyl ester



CAS NUMBER	0072903-27-6
REACH NUMBER	01-0000016412-79
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

Fruity, raspberry, apple, pineapple, ethereal.

A bright fruity, raspberry, apple note which provides incredible volume to perfume compositions.

FRUCTALATE® shows remarkable boosting performance, long lastingness and fruity lift. The main effect and profile performance is in composition, much better than on a blotter!

PERFUMERY USAGE

Excellent in a fruity, pineapple or citrus composition where it can be used at high dosage. At low dosage, it enhances the overall profile of the formula and gives a real strawberry effect.

Very stable, FRUCTALATE® is the ultimate fruity enhancer in all type of applications, including Agarbattis (incense sticks). Performs extremely well in Home Care applications.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.65
APPEARANCE	LIQUID COULD CRYSTALLIZE
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.04 Pa at 20°C
MOLECULAR WEIGHT	228
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,05% - 0,2%	TOP AND HEART NOTE
SHAMPOO	●●●	0,5% - 2%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,4% - 2%	BLOOM ●●●
SOAP	●●●	0,7% - 2%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●	2% - 17%	WET ●●● DRY ●●
SOFTENER	●●●	0,6% - 3%	WET ●●● DRY ●●●
APC	●●●	1% - 4%	
CANDLE	●●●	4% - 12%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

Our GRANNY SMITH BASE is one of the iconic Firmenich base containing FRUCTALATE®.

FURANEOL®
943881

GOURMAND

FRUITY

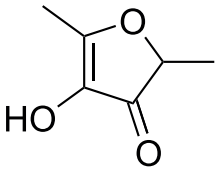
CHEMICAL SYNTHESIS

CAS NUMBER	0003658-77-3
REACH NUMBER	01-2120754473-52
FEMA NUMBER	3174

BIODEGRADABILITY — Readily

GREEN CHEMISTRY SCORE — 50 - 70%





OLFACTIVE DESCRIPTION

Intense caramel and fruity note, reminiscent of cotton candy.

PERFUMERY USAGE

Indispensable ingredient for strawberry, pineapple and exotic fruity accords. Often used to bring a jammy effect.

Naturally found in coffee, malt, grape, guava, pineapple, raspberry, strawberry...

TENACITY

Lasts -
on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	0.01
APPEARANCE	POWDER
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.04 Pa at 20°C
MOLECULAR WEIGHT	128
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS

DID YOU KNOW ?

Furaneol® was first identified in 1965 as a constituent of strawberry and pineapple. It is also an important flavor molecule imparting fruity, strawberry, caramel type tonalities and being used in numerous sweet and savoury applications.

FURANEOL® NAT
943910

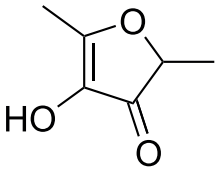
GOURMAND

FRUITY

WHITE BIOTECHNOLOGY

CAS NUMBER	0003658-77-3
REACH NUMBER	01-2120754473-52
FEMA NUMBER	3174
RENEWABLE CARBON	100%
BIODEGRADABILITY	Readily





OLFACTIVE DESCRIPTION

Intense caramel and fruity note, reminiscent of cotton candy.

PERFUMERY USAGE

Indispensable ingredient for strawberry, pineapple and exotic fruity accords. Often used to bring a jammy effect.

TENACITY

Lasts -
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	0.01
APPEARANCE	CRYSTALLINE POWDER
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.04 Pa at 20°C
MOLECULAR WEIGHT	128
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS

DID YOU KNOW ?

FURANEOL® was first identified in 1965 as a constituent of strawberry and pineapple. It is also an important flavor molecule imparting fruity, strawberry, caramel type tonalities and being used in numerous sweet and savoury applications.

GALBANOLENE 10 TEC
944252

GREEN

AROMATIC

CHEMICAL SYNTHESIS

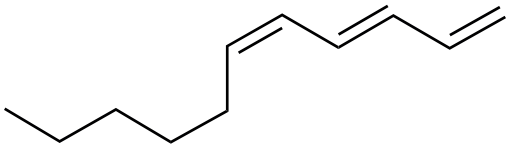
CAS NUMBER	0016356-11-9
REACH NUMBER	
FEMA NUMBER	3795

BIODEGRADABILITY: Ultimately

GREEN CHEMISTRY SCORE: 50 - 70%

1,3,5-Undecatriene





OLFACTIVE DESCRIPTION

An extremely powerful and diffusive green, galbanum-type material.

PERFUMERY USAGE

Normally used as a 10% solution, GALBANOLENE 10 TEC gives personality and lift to many fragrance types whenever a unique green note is desired.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.68
APPEARANCE	LIQUID
FLASHPOINT	89°C
VAPOUR PRESSURE	56.13 Pa at 20°C
MOLECULAR WEIGHT	150
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●	TRACES - 0,05%	TOP NOTE
SHAMPOO	●●●●	TRACES - 0,07%	WET ●●● DRY ●
SHOWER GEL	●●	0,01% - 0,07%	BLOOM ●●●●
SOAP	●●●●	0,03% - 0,1%	FOAM ●●●● DRY HAND ●
DETERGENT	●●●	0,04% - 0,7%	WET ●● DRY ●
SOFTENER	●●●●	0,03% - 0,4%	WET ●●● DRY ●●
APC	●●●	0,04% - 0,2%	
CANDLE	●●●	0,01% - 0,1%	COLD WAX ●●● BURNING ●

DID YOU KNOW ?

HABANOLIDE®
947303

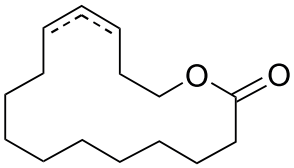
MUSKY

CHEMICAL SYNTHESIS

Oxacyclohexadec-12-en-2-one, (12E)-



CAS NUMBER	0111879-80-2
REACH NUMBER	01-0000016883-62
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

An extremely elegant and substantive musk note.

It is typical of macrocyclic musks with a warm and slightly woody undertone.

PERFUMERY USAGE

HABANOLIDE® is a very powerful musk.

It combines the strength and tenacity of the aromatic musks with the pleasantness and elegance of the macrocyclic musks.

Excellent in all applications.

TENACITY

Lasts 2 weeks on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.61
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.00 Pa at 20°C
MOLECULAR WEIGHT	238
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	4% - 13%	HEART AND BASE NOTE			
SHAMPOO	●●●●	3% - 10%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	3% - 14%	BLOOM	●●●		
SOAP	●●●	2% - 10%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●	3% - 13%	WET	●●●	DRY	●●●
SOFTENER	●●●●	5% - 14%	WET	●●●●	DRY	●●●●
APC	●●●	2% - 6%				
CANDLE	●●●	2% - 7%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

HEDIONE®
964898

FLORAL

CHEMICAL SYNTHESIS

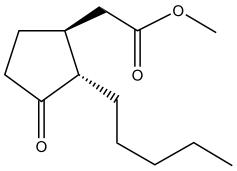
Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester



CAS NUMBER	0024851-98-7
REACH NUMBER	01-2119493355-31
FEMA NUMBER	3408

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

An elegant, transparent floral, jasmine note with citrus freshness.

HEDIONE® develops a beautiful natural smoothness and radiance in a wide range of perfume types.

PERFUMERY USAGE

Besides use in jasmine and its floral family, it gives original effects in virtually all fragrance types.

HEDIONE® exalts floralcy in a perfume. It does not necessarily increase strength, but does bestow presence, noticeability, and diffusion. These three key words all provided by a material that is by itself quietly understated and easily underestimated.

Used at a concentration of between 2 and 15%, but can be used at levels of 35% and above.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.92
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.09 Pa at 20°C
MOLECULAR WEIGHT	226
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	12% - 38%	TOP AND HEART NOTE
SHAMPOO	●●●	8% - 20%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	8% - 23%	BLOOM ●●●
SOAP	●●●	5% - 17%	FOAM ●●● DRY HAND ●●●
DETERGENT	●●●●	3% - 13%	WET ●●● DRY ●●●
SOFTENER	●●●●	4% - 13%	WET ●●●● DRY ●●●●
APC	●●●	2% - 8%	
CANDLE	●●●	5% - 17%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

HEDIONE®, cornerstone of an entire family of molecules, was discovered by Firmenich scientist, Dr. E. Demole in 1958 as part of the methyl jasmonate synthesis.

HEDIONE® brings to mind the old adage, "He who wishes to be heard will always whisper".

HEDIONE® HC
947325

FLORAL

CHEMICAL SYNTHESIS

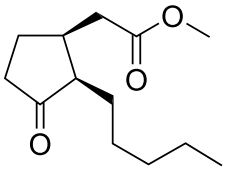
Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester



CAS NUMBER	0024851-98-7
REACH NUMBER	01-2119493355-31
FEMA NUMBER	3408

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

A unique powerful, floral note reminiscent of magnolia blossoms.

PERFUMERY USAGE

HEDIONE® HC has wonderful booster effects.

It's strength is far superior to the classical HEDIONE® due to its high cis concentration.

It exhibits its character only in neutral pH conditions (5.5 - 7.0).

TENACITY

Lasts 1 month on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.94
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.09 Pa at 20°C
MOLECULAR WEIGHT	226
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	7% - 25%	TOP AND HEART NOTE
SHAMPOO	●●●	0,8% - 4%	WET ●●●● DRY ●●
SHOWER GEL	●●	2% - 10%	BLOOM ●●
CANDLE	●●●	2% - 5%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

HEDIONE®, cornerstone of an entire family of molecules, was discovered by Firmenich scientist, Dr. E. Demole in 1958 as part of the methyl jasmonate synthesis.

HEDIONE® brings to mind the old adage, "He who wishes to be heard will always whisper"..

HELVETOLIDE®
947650

MUSKY

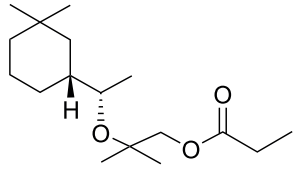
CHEMICAL SYNTHESIS

1-Propanol, 2-[1-(3,3-dimethyl-cyclohexyl) ethoxy]-2-methyl-,propanoate



CAS NUMBER	0141773-73-1
REACH NUMBER	01-0000016242-80
FEMA NUMBER	

RENEWABLE CARBON	>50%
BIODEGRADABILITY	Partially
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A sophisticated and modern musky note reminiscent of Ambrette seeds. HELVETOLIDE® also conveys richness and warmth.

Its volatility due to its unique chemical structure adds presence to fragrances top note. Its aura is felt from top to bottom.

PERFUMERY USAGE

HELVETOLIDE® offers excellent volatile pear-like facets and smooth ambrette undertones in all applications. Its unexpected volume and richness propelled HELVETOLIDE® as a cornerstone of perfumery ingredients.

HELVETOLIDE® fixates without suppressing a fragrance, it can skew floral notes and smoothens fruity notes without functional perfumery connotation.

It performs particularly well in liquid applications (alcohol solution, shampoo, body wash) and emulsions. It is one of the few "top note" musks.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.46
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.02 Pa at 20°C
MOLECULAR WEIGHT	284
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	2% - 11%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●●	0,4% - 2%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,8% - 4%	BLOOM ●●●●
SOAP	●●●	0,4% - 2%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●	0,4% - 2%	WET ●●● DRY ●●
SOFTENER	●●●●	0,3% - 1%	WET ●●●● DRY ●●●●
APC	●●●	0,3% - 1%	
CANDLE	●●●	0,5% - 2%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

HIVERNAL® NEO
948605

FLORAL

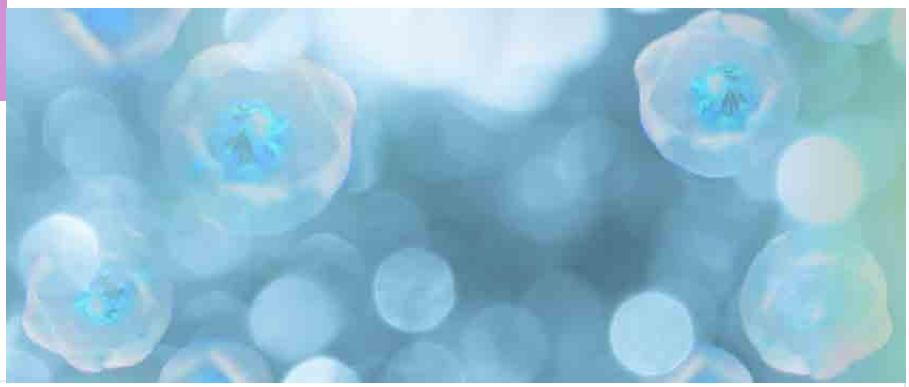
MUGUET

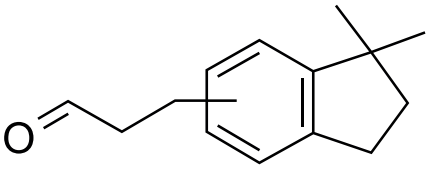
CHEMICAL SYNTHESIS

CAS NUMBER	0300371-33-9
REACH NUMBER	01-2120750428-51
FEMA NUMBER	

GREEN CHEMISTRY SCORE 50 - 70%

1H-Indene-ar-propanal, 2,3-dihydro-1,1-dimethyl-





OLFACTIVE DESCRIPTION

HIVERNAL® NEO is a powerful aldehydic-muguet note with green facets.

Its fresh and clean signature is reminiscent of sun-dried laundry.

PERFUMERY USAGE

HIVERNAL® NEO is used in all kind of applications to enhance muguet accords and the long-lasting freshness.

An elegant signature with specific facets and tonalities, it gives a clean and fresh effect, like a fabric wild dried with sunshine.

TENACITY

Lasts 3 weeks
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.44
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	-
MOLECULAR WEIGHT	202
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,03% - 0,2%	TOP, HEART AND BASE NOTE			
SHAMPOO	●●●	0,09% - 0,5%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	0,04% - 0,2%	BLOOM	●●●		
SOAP	●●●●	0,09% - 0,4%	FOAM	●●●	DRY HAND	●●●
DETERGENT	●●●●	0,1% - 0,5%	WET	●●●	DRY	●●●
SOFTENER	●●●●	0,2% - 0,6%	WET	●●●●	DRY	●●●
APC	●●●	0,06% - 0,2%				
CANDLE	●●●	0,03% - 0,2%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

The name of this molecule has been inspired by our Firmenich chemist who invented it: Beat WINTER. "Hiver" means "Winter", like the cold effect this molecule brings with it!

Part of Firmenich concept "BEYOND MUGUET".

INDOCOLORE®
949021

ANIMALIC

FLORAL

CHEMICAL SYNTHESIS

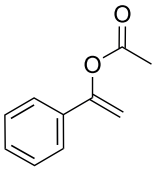
Benzenemethanol, .alpha.-methylene-, acetate



CAS NUMBER	0002206-94-2
REACH NUMBER	01-2120102745-63
FEMA NUMBER	

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

INDOCOLORE™ is a creative solution achieving delicacy with a less animalic character than Indole.

More floral than Indole, it offers indolic, animalic and hyacinth notes.

PERFUMERY USAGE

This non-coloring Indole note is a technical solution to create clear and powerful florals.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.13
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	-
MOLECULAR WEIGHT	162
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,1%	TOP NOTE			
SHAMPOO	●●●	0,2% - 0,6%	WET	●●●	DRY	●●
SHOWER GEL	●●●	0,02% - 0,1%	BLOOM	●●●		
SOAP	●●●	0,03% - 0,1%	FOAM	●●●	DRY HAND	●●
DETERGENT	●●●	0,03% - 0,09%	WET	●●	DRY	●●
SOFTENER	●●●	0,01% - 0,04%	WET	●●●	DRY	●●
APC	●●●	0,03% - 0,1%				
CANDLE	●●●	0,03% - 0,2%	COLD WAX	●●●●	BURNING	●●●

DID YOU KNOW ?

IRALIA®
949828

FLORAL

VIOLET – ORRIS

CHEMICAL SYNTHESIS

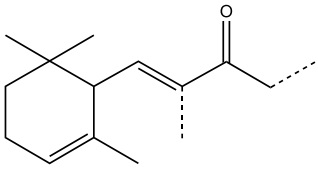
CAS NUMBER	0001335-46-2
REACH NUMBER	01-2120096737-39
FEMA NUMBER	9999

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%

Ionone, methyl-





OLFACTIVE DESCRIPTION

The richest, most floral of all qualities of methylionones with a strong orris, violet character and a slight fruity note.

DESCRIPTORS: Floral, Powdery, Woody.

PERFUMERY USAGE

An indispensable element in all high quality perfumes whatever their tonality: flowery, woody, chypre, oriental, etc...
It gives them radiance and great elegance.

IRALIA® is used at a concentration varying from 1 to 10% and, in certain cases, up to 20 - 25%.

IRALIA® is one of the cornerstone of Dianthine, created in 1900'.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.22
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.46 Pa at 20°C
MOLECULAR WEIGHT	206
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●	0,3% - 3%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●	0,01% - 0,3%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	0,1% - 1%	BLOOM ●●●●
SOAP	●●●	0,06% - 0,7%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●●	0,03% - 0,1%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,01% - 0,06%	WET ●●●● DRY ●●●●
APC	●●●	TRACES - 0,02%	
CANDLE	●●	0,3% - 0,7%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

The fascinating story of Firmenich molecules starts in 1903 with the discovery and synthesis of IRALIA®.

This major achievement contributes to the development of organic chemistry in our industry.

IRALIA® TOTAL
949970

FLORAL

VIOLET – ORRIS

CHEMICAL SYNTHESIS

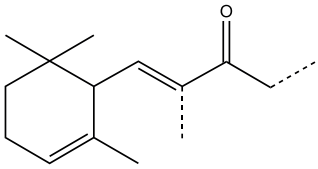
CAS NUMBER	0001335-46-2
REACH NUMBER	01-2120096737-39
FEMA NUMBER	2714

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%

Ionone, methyl-





OLFACTIVE DESCRIPTION

The most floral and rich of all qualities of methylionones with a strong orris, violet character and a slight fruity note.

IRALIA® TOTAL is slightly more woody than IRALIA®.

DESCRIPTORS: Woody, Fruity, Balsamic, Ambery.

PERFUMERY USAGE

This cost effective quality of IRALIA® provides the same advantage as IRALIA® over other methylionones by its complex character combined with a good substantivity on cloth as well as a better stability in certain difficult media.

Whatever the tonality: flowery, woody, chypre, oriental, etc..., it gives radiance and great elegance.

IRALIA® is one of the cornerstone of Dianthine, created in 1900'.

TENACITY

Lasts 1 week on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.28
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.46 Pa at 20°C
MOLECULAR WEIGHT	206
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●	0,1% - 1%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●	0,7% - 3%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	0,5% - 2%	BLOOM ●●●●
SOAP	●●●	0,8% - 3%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●●	0,8% - 4%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,9% - 3%	WET ●●●● DRY ●●●●
APC	●●●	0,6% - 2%	
CANDLE	●●	0,9% - 4%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

The fascinating story of Firmenich molecules starts in 1903 with the discovery and synthesis of IRALIA®.

This major achievement contributes to the development of organic chemistry in our industry.

IRONE ALPHA
950324

FLORAL

VIOLET – ORRIS

CHEMICAL SYNTHESIS

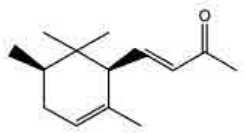
CAS NUMBER	0054992-91-5
REACH NUMBER	
FEMA NUMBER	2597

BIODEGRADABILITY: Partially

GREEN CHEMISTRY SCORE: 70 - 100%

(+-)-(E)-4-(2,5,6,6-Tetramethyl-2-cyclohexen-1- yl)-3-buten-2-one





OLFACTIVE DESCRIPTION

Orris, violet, powdery, soft and woody.

PERFUMERY USAGE

Very useful to enrich the floral and natural character of orris, violet and some fruity accords. It enhances the volume and the diffusion of fragrances. Thanks to its strength and good stability, it is convenient for many applications.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.03 Pa at 20°C
MOLECULAR WEIGHT	206
BOILING POINT	> 40°C

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,08% - 0,6%	
SHAMPOO	●●●	0,03% - 0,06%	WET ●●● DRY ●
SHOWER GEL	●●●	0,04% - 0,2%	BLOOM ●●●
SOAP	●●●●	0,04% - 0,2%	FOAM ●●● DRY HAND ●
DETERGENT	●●●●	N/A - N/A	WET ●● DRY ●
SOFTENER	●●●●	0,05% - 0,09%	WET ●●● DRY ●
APC	●●	TRACES	
CANDLE	●●●●	0,05% - 0,1%	COLD WAX ●●●● BURNING ●●

DID YOU KNOW ?

Irones (alpha, beta, gamma) are the olfactive constituent of orris extract. IRONE ALPHA is more floral and less earthy than IRONE BETA.
IRONE ALPHA exists in two isomers: cis-alpha (best olfactive isomer) and trans-alpha.

ISOPENTYRATE
951517

FRUITY

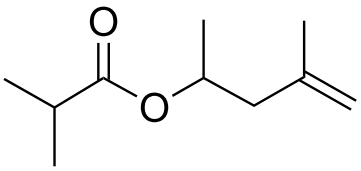
FLORAL

CHEMICAL SYNTHESIS

Propanoic acid, 2-methyl, 1,3-dimethyl-3-butenyl ester



CAS NUMBER	0080118-06-5
REACH NUMBER	01-2120104192-74
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A unique fruity, aromatic ester note that is reminiscent of the character of chamomile.

PERFUMERY USAGE

ISOPENTYRATE brings a lovely natural fresh quality to almost all areas of perfumery.

At low levels it enhances a fragrance's performance.

TENACITY

Lasts 1 hour on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.57
APPEARANCE	CLEAR LIQUID
FLASHPOINT	53°C
VAPOUR PRESSURE	91.99 Pa at 20°C
MOLECULAR WEIGHT	171
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,01%	TOP NOTE			
SHAMPOO	●●●	0,2% - 1%	WET	●●●	DRY	●●●
SHOWER GEL	●●●	0,1% - 0,8%	BLOOM	●●●		
SOAP	●●●	0,3% - 1%	FOAM	●●●●	DRY HAND	●●
DETERGENT	●●	0,6% - 3%	WET	●●	DRY	●●
SOFTENER	●●●	0,7% - 2%	WET	●●●	DRY	●●
APC	●●	0,06% - 0,6%				
CANDLE	●●●	0,03% - 0,2%	COLD WAX	●●●	BURNING	●●

DID YOU KNOW ?

JASMINLACTONE
952700

FLORAL

WHITE FLOWER

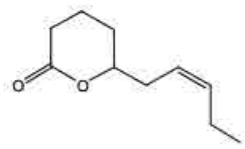
CHEMICAL SYNTHESIS

(+-)-(Z)-7-Decen-5-olide



CAS NUMBER	0025524-95-2
REACH NUMBER	
FEMA NUMBER	3745

BIODEGRADABILITY: Readily



OLFACTIVE DESCRIPTION

Very elegant creamy lactone reminiscent of natural jasmine with peach and coconut undertones.

PERFUMERY USAGE

Occurs naturally in jasmine and champaca. More floral and less fruity-lactonic than the JASMOLACTONE DELTA for instance.

It is particularly valuable in white flowers accords, especially in jasmine notes.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	1.93
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.30 Pa at 20°C
MOLECULAR WEIGHT	168
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,09% - 0,4%	HEART AND BASE NOTE
SHAMPOO	●●●	0,01% - 0,1%	WET ●●● DRY ●●●
SHOWER GEL	●●●	0,04% - 0,2%	BLOOM ●●●
SOAP	●●●	0,03% - 0,1%	FOAM ●● DRY HAND ●
DETERGENT	●●	TRACES	WET ●● DRY ●
SOFTENER	●●●●	0,02% - 0,06%	WET ●●● DRY ●●
APC	●●●	N/A - N/A	
CANDLE	●●●●	0,04% - 0,3%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

This ingredient is both convenient for perfumery and flavor applications.

JASMOLACTONE DELTA
965414

FLORAL

FRUITY

CHEMICAL SYNTHESIS

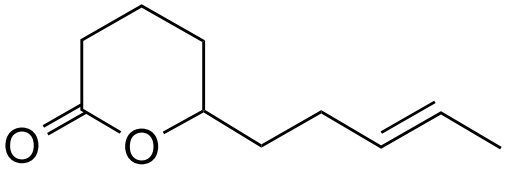
2H-Pyran-2-one, tetrahydro-6-(3-pentenyl)-



CAS NUMBER	0032764-98-0
REACH NUMBER	01-2120042409-58
FEMA NUMBER	4441

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

A very rich and natural floral lactone.

It has a floral, jasmine petal-like character with a delicate fruitiness reminiscent of peach, apricot and coconut milk.

PERFUMERY USAGE

JASMOLACTONE DELTA has a complimentary effect with jasmine notes and is effective at relatively low concentrations between 0.1 to 1%.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.7
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.30 Pa at 20°C
MOLECULAR WEIGHT	168
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●	0,03% - 0,2%	HEART NOTE			
SHAMPOO	●●	0,02% - 0,1%	WET	●●●	DRY	●●●
SHOWER GEL	●●	0,04% - 0,3%	BLOOM	●●●		
SOAP	●●●	0,03% - 0,2%	FOAM	●●	DRY HAND	●
DETERGENT	●	TRACES - 0,05%	WET	●●	DRY	●
SOFTENER	●●●	0,02% - 0,1%	WET	●●●	DRY	●●
APC	●●●	0,03% - 0,1%				
CANDLE	●●	0,03% - 0,1%	COLD WAX	●●	BURNING	●●

DID YOU KNOW ?

HEDIONE®, cornerstone of an entire family of molecules, was discovered by Firmenich scientist, Dr. E. Demole in 1958 as part of the methyl jasmonate synthesis.

HEDIONE® brings to mind the old adage, "He who wishes to be heard will always whisper".

LILYFLORE®
955210

FLORAL

MUGUET

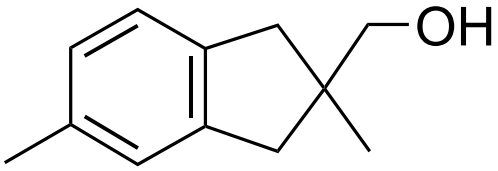
CHEMICAL SYNTHESIS

(2,5-Dimethyl-2,3-dihydro-1H-inden-2-yl) methanol



CAS NUMBER	0285977-85-7
REACH NUMBER	01-0000018289-60
FEMA NUMBER	

GREEN CHEMISTRY SCORE 50 - 70%



OLFACTIVE DESCRIPTION

LILYFLORE® is a beautiful muguet floral note.

With volume in excess, LILYFLORE® is designed to surprise.

Its delicate white floral and lily of the valley bouquet, leaves place gradually to an incredible strength and a beaming pure performance.

PERFUMERY USAGE

Brings incredible volume and structure.

Although it appears light on blotter, it offers a very good performance in composition and leaves place gradually to an incredible strength and a beaming pure performance.

Non sensitizing and extremely stable, the dynamics of its profile offers, in all application, an endless source of creativity. LILYFLORE® brings a moist fresh note.

TENACITY

Lasts 1 month on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.12
APPEARANCE	LIQUID COULD CRYSTALLIZE
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.01 Pa at 20°C
MOLECULAR WEIGHT	176
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,1% - 0,6%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●	0,3% - 0,9%	WET ●●● DRY ●●●
SHOWER GEL	●●●	0,2% - 0,7%	BLOOM ●●●
SOAP	●●●●	0,2% - 0,7%	FOAM ●●● DRY HAND ●●●
DETERGENT	●●●●	0,3% - 0,9%	WET ●●●● DRY ●●●●
SOFTENER	●●●●	0,3% - 2%	WET ●●●● DRY ●●●●
APC	●●●	0,2% - 0,6%	
CANDLE	●●●	0,2% - 1%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

Part of Firmenich concept "BEYOND MUGUET".

LORYSIA®
956256

FLORAL

WOODY

CHEMICAL SYNTHESIS

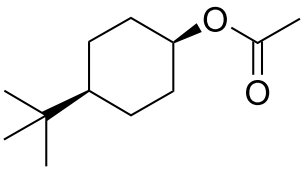
CAS NUMBER
REACH NUMBER
FEMA NUMBER

BIODEGRADABILITY — Readily

GREEN CHEMISTRY SCORE — 70 - 100%

Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate





OLFACTIVE DESCRIPTION

A sophisticated and complex odor with a floral, woody-orris character.

PERFUMERY USAGE

LORYSIA® is a versatile, stable and substantive ingredient that can be used in a wide variety of fragrances.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.18
APPEARANCE	LIQUID
FLASHPOINT	97°C
VAPOUR PRESSURE	-
MOLECULAR WEIGHT	-
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	2% - 5%	HEART NOTE
SHAMPOO	●●●	4% - 11%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	4% - 9%	BLOOM ●●●
SOAP	●●●●	4% - 11%	FOAM ●●●● DRY HAND ●
DETERGENT	●●●●	2% - 7%	WET ●●● DRY ●
SOFTENER	●●●●	4% - 9%	WET ●●●● DRY ●●
APC	●●●	2% - 6%	
CANDLE	●●●	6% - 15%	COLD WAX ●●● BURNING ●●

DID YOU KNOW ?

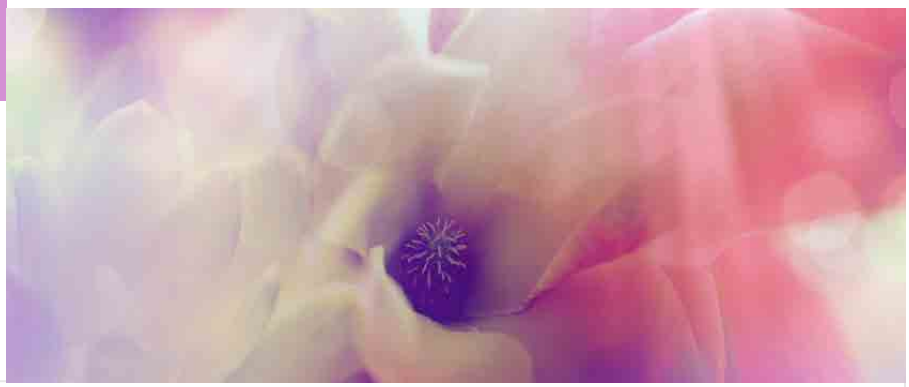
MAYOL®
957230

FLORAL

MUGUET

CHEMICAL SYNTHESIS

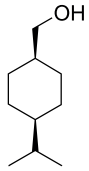
Cyclohexanemethanol, 4-(1-methylethyl)-, cis-



CAS NUMBER	0013828-37-0
REACH NUMBER	01-2119983532-32
FEMA NUMBER	4507

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

Fresh, soft and clean floral odor reminiscent of white petals and blossoms of many flowers: magnolia, tuberose, muguet, cyclamen, etc...

PERFUMERY USAGE

MAYOL® harmonizes wonderfully with muguet, lilac, tuberose, jasmin floral and with citrus notes particularly bergamot.

It combines well with muguet ingredients, often giving lift and smoothness to the fragrance.

With woody and methylionone blends, MAYOL® diffuses the woody character to the top of the perfume.

Small percentages give floral freshness and large amounts can produce original effects.

TENACITY

Lasts 3 days on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.45
APPEARANCE	LIQUID
FLASHPOINT	99°C
VAPOUR PRESSURE	0.90 Pa at 20°C
MOLECULAR WEIGHT	156
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,8% - 3%	HEART NOTE			
SHAMPOO	●●●	0,5% - 2%	WET	●●●	DRY	●●●
SHOWER GEL	●●●	0,9% - 4%	BLOOM	●●●		
SOAP	●●●●	0,9% - 4%	FOAM	●●	DRY HAND	●
DETERGENT	●●●●	1% - 6%	WET	●●●	DRY	●●
SOFTENER	●●●●	0,8% - 3%	WET	●●●●	DRY	●●●●
APC	●●●●	0,3% - 0,9%				
CANDLE	●●●	1% - 5%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

Part of Firmenich concept "BEYOND MUGUET".

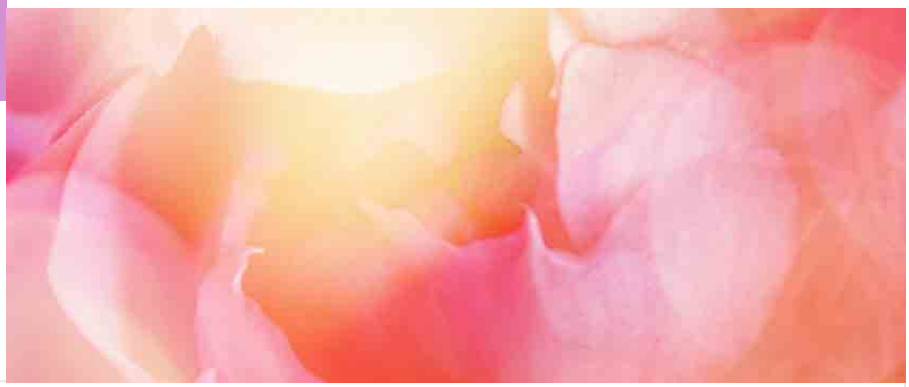
METHYL CYCLOGERANATE
936915

FLORAL

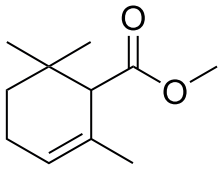
FRUITY

CHEMICAL SYNTHESIS

2-Cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester



CAS NUMBER	0028043-10-9
REACH NUMBER	01-2120097033-60
FEMA NUMBER	
BIODEGRADABILITY	Ultimately
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

METHYL CYCLOGERANATE is a floral, rose, fruity note that also brings an earthy, camphor and damascone like character to fragrances.

PERFUMERY USAGE

Mild intensity ingredient that can be used in most fragrances bringing rosy, fresh and fruity tonalities.

The Ester of DAMASCONE ALPHA.
Not a sensitizer and as such can be used as a substitute for Damascones.

METHYL CYCLOGERANATE is the Cyclogeranate corresponding to DAMASCONE ALPHA.

TENACITY

Lasts 3 hours
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.16
APPEARANCE	LIQUID
FLASHPOINT	77°C
VAPOUR PRESSURE	9.55 Pa at 20°C
MOLECULAR WEIGHT	183
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,06% - 0,3%	TOP AND HEART NOTE
SHAMPOO	●●●	0,03% - 0,2%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,06% - 0,4%	BLOOM ●●●
SOAP	●●●●	0,07% - 0,5%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●	0,03% - 0,1%	WET ●●● DRY ●
SOFTENER	●●●●	0,10% - 0,5%	WET ●●●● DRY ●
APC	●●●	0,1% - 0,6%	
CANDLE	●●●	0,08% - 0,5%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

Firmenich is recognized for its rose ketones which are now under the scope of IFRA limitation due to sensitizing effects.
Corresponding esters are not sensitizing and Firmenich has developed many patented synthetics in this range (Cyclo-geranates).

METHYL GERANATE
945040

FLORAL

AROMATIC

CHEMICAL SYNTHESIS

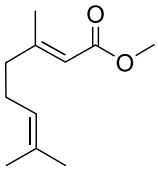
2,6-Octadienoic acid, 3,7-dimethyl-, methyl ester, (E)-



CAS NUMBER 0001189-09-9
REACH NUMBER
FEMA NUMBER

BIODEGRADABILITY Readily

GREEN CHEMISTRY SCORE 50 - 70%



OLFACTIVE DESCRIPTION

Floral, herbal, citrus, fruity and green note closely related to part of the geranium character.

PERFUMERY USAGE

METHYL GERANATE is a key link between the lavender aspect and the geranium character for a fougere note.

It gives excellent effects in many florals to develop richness and naturalness and should be tried in colognes especially with neroli and green notes in combination with galbanum.

Usage levels: 0.5-10%.

TENACITY

Lasts 6 hours on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	-
APPEARANCE	LIQUID
FLASHPOINT	91°C
VAPOUR PRESSURE	6.44 Pa at 20°C
MOLECULAR WEIGHT	183
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	TRACES - 0,02%	TOP NOTE
SHAMPOO	●●●●	TRACES - 0,03%	WET ●●●● DRY ●
SHOWER GEL	●●●●	TRACES	BLOOM ●●●
SOAP	●●●●	TRACES - 0,04%	FOAM ●●● DRY HAND ●
DETERGENT	●●●●	0,2% - 0,4%	WET ●●●● DRY ●
SOFTENER	●●●●	TRACES	WET ●●●● DRY ●
APC	●●●●	TRACES	
CANDLE	●●●	TRACES	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

MUSCENONE® DELTA
962191

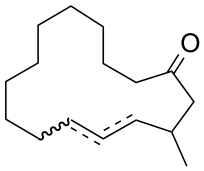
MUSKY

CHEMICAL SYNTHESIS

5-Cyclopentadecen-1-one, 3-methyl-



CAS NUMBER	0063314-79-4
REACH NUMBER	01-0000017618-62
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A very elegant nitromusk type of odor reminiscent of Musk Ketone, with a slight animalic but natural undertone.

PERFUMERY USAGE

MUSCENONE® DELTA is a very powerful musk with two facets.

At low dosages, it is a fragrance enhancer. Above this level, it is used for its musky character in addition to its boosting effect.

It has excellent substantivity on fabric, hair and skin; imparting a musky, powdery and cosmetic softness.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.98
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.02 Pa at 20°C
MOLECULAR WEIGHT	236
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,8% - 3%	HEART AND BASE NOTE
SHAMPOO	●●●●	0,2% - 0,6%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,3% - 1%	BLOOM ●●●
SOAP	●●●	0,1% - 0,6%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●	0,2% - 0,7%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,2% - 0,7%	WET ●●●● DRY ●●●●
APC	●●●	0,05% - 0,2%	
CANDLE	●●●	0,1% - 0,4%	COLD WAX ●●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

MUSCONE
962195

MUSKY

CHEMICAL SYNTHESIS

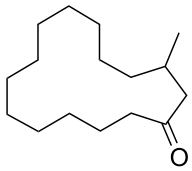
Cyclopentadecanone, 3-methyl-



CAS NUMBER	0000541-91-3
REACH NUMBER	01-2120227688-45
FEMA NUMBER	3434

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

A very soft, sweet, musky odor with a warm animalic tonality, reminiscent of the natural Musk Tonkin.

PERFUMERY USAGE

It can be used to give elegant, warm animalic notes and adds lift and diffusion to any fragrance.

Important for the reconstitution of natural musk.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	6.11
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.03 Pa at 20°C
MOLECULAR WEIGHT	238
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,4% - 2%	HEART AND BASE NOTE
SHAMPOO	●●●	0,09% - 0,5%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,1% - 0,9%	BLOOM ●●●
SOAP	●●●●	0,03% - 0,2%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●●	0,10% - 0,4%	WET ●●● DRY ●●
SOFTENER	●●●●	0,02% - 0,1%	WET ●●●● DRY ●●●
APC	●●●	TRACES - 0,05%	
CANDLE	●●●	TRACES - 0,06%	COLD WAX ●●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

MUSCONE LAEVO
954117

(-)-(3R)-3-Methyl-1-cyclopentadecanone



MUSKY

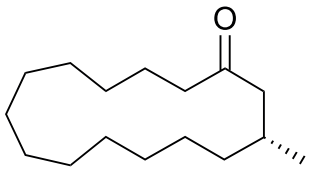
ANIMALIC

CHEMICAL SYNTHESIS

CAS NUMBER	0000541-91-3
REACH NUMBER	
FEMA NUMBER	3434

BIODEGRADABILITY: Readily

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

Nice musky animalic, typical Musk Tonkin note. It is the nature-identical musk present in Musk deer pouches.

From a Nobel prize in 1939 to the latest innovation, MUSCONE LAEVO is a cornerstone of the Firmenich musk palette.

Refined to perfection, this soft musk calls to mind a sweet and elegant ribbon of warm and animalic tonalities.

PERFUMERY USAGE

MUSCONE LAEVO can be used to give elegant, warm animalic notes and adds lift and diffusion to any fragrance.

Important for the reconstitution of natural musk.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	7.31
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.03 Pa at 20°C
MOLECULAR WEIGHT	238
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,3% - 1%	HEART AND BASE NOTE
SHAMPOO	●●●	N/A - N/A	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,6% - 1%	BLOOM ●●●
SOAP	●●●●	N/A - N/A	FOAM ●●● DRY HAND ●●
DETERGENT	●●●●	N/A - N/A	WET ●●● DRY ●●
SOFTENER	●●●●	N/A - N/A	WET ●●●● DRY ●●●
APC	●●●	N/A - N/A	
CANDLE	●●●	N/A - N/A	COLD WAX ●●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

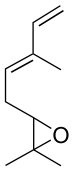
MYROXYDE®
962608

AROMATIC
CHEMICAL SYNTHESIS

Oxirane, 2,2-dimethyl-3- (3-methyl-2,4-pentadienyl)-



CAS NUMBER	0069103-20-4
REACH NUMBER	01-2120065062-67
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

A complex aromatic, herbal note; reminiscent of lavender, opoponax, pineapple, pear and tarragon.

PERFUMERY USAGE

When used at 0.1 - 2.0%, MYROXYDE® can give tremendous lift and volume to a fragrance.

Very effective in fougere, lavender, oakmoss and spicy directions, it also delivers a wonderful freshness to lemon and citrus perfumes.

TENACITY

Lasts 3 hours on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.92
APPEARANCE	LIQUID
FLASHPOINT	70°C
VAPOUR PRESSURE	143.99 Pa at 20°C
MOLECULAR WEIGHT	152
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,05%	TOP NOTE			
SHAMPOO	●●●	TRACES - 0,08%	WET	●●	DRY	●
SHOWER GEL	●●●	TRACES - 0,07%	BLOOM	●●●		
SOAP	●●●	0,04% - 0,2%	FOAM	●●●●	DRY HAND	●●●
DETERGENT	●●	0,2% - 2%	WET	●●	DRY	●
SOFTENER	●●●	0,09% - 1%	WET	●●●	DRY	●
APC	●●●	0,05% - 0,2%				
CANDLE	●●●	0,02% - 0,1%	COLD WAX	●●●●	BURNING	●●●●

DID YOU KNOW ?

NEOBUTENONE® ALPHA
966466

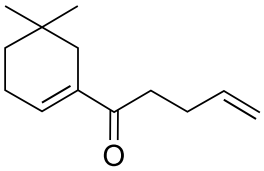
GREEN

CHEMICAL SYNTHESIS

4-Penten-1-one, 1-(5,5- dimethyl-1-cyclohexen-1-yl)-



CAS NUMBER	0056973-85-4
REACH NUMBER	01-2120735847-42
FEMA NUMBER	
BIODEGRADABILITY	Partially
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Green, fruity, floral and extremely powerful, NEOBUTENONE® ALPHA is the purest expression of a classic green, galbanum-type note.

The pineapple effect is really amazing when associated in fruity green accords.

PERFUMERY USAGE

"Best in class" of its family, versatile and diffusive, it is used in all types of fragrances and applications to give unique fresh, green, floral and fruity effects.

It brings out the foral character of rose ketones.

The olfactive profile changes according to dosages:
at 0.01%: Floral effect
at 0.1%: Green effect
at 1%: Fruity effect.

TENACITY

Lasts 3 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.89
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.44 Pa at 20°C
MOLECULAR WEIGHT	192
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	TRACES - 0,05%	TOP AND HEART NOTE			
SHAMPOO	●●●●	0,03% - 0,1%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●●	0,03% - 0,1%	BLOOM	●●●●		
SOAP	●●●●	0,04% - 0,1%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●●	0,1% - 0,5%	WET	●●●●	DRY	●●
SOFTENER	●●●●	0,07% - 0,3%	WET	●●●●	DRY	●●●●
APC	●●●	0,05% - 0,2%				
CANDLE	●●●	0,02% - 0,10%	COLD WAX	●●	BURNING	●●●

DID YOU KNOW ?

NEOBUTENONE® ALPHA was first introduced on the market in GALBEX® 000183 (1974), a base which became incredibly successful as it offered a stable and powerful green note unavailable at the time.

NORLIMBANOL®
967412

WOODY

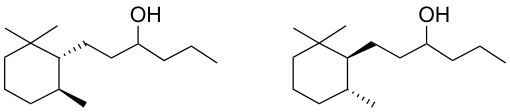
AMBERY

CHEMICAL SYNTHESIS

Cyclohexanepropanol, 2,2,6-trimethyl-. alpha.-propyl-



CAS NUMBER	0070788-30-6
REACH NUMBER	01-2120085416-52
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Powerful dry woody and ambery note.

PERFUMERY USAGE

A cerdarwood ambery note that gives effects to the complete olfactive pyramid from top to base.

NORLIMBANOL® enhances fresh top notes and the tenacity of fragrances in all applications.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.42
APPEARANCE	LIQUID COULD CRYSTALLIZE
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.01 Pa at 20°C
MOLECULAR WEIGHT	226
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,8% - 4%	HEART AND BASE NOTE
SHAMPOO	●●●●	0,3% - 1,0%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,3% - 1%	BLOOM ●●●
SOAP	●●●●	0,2% - 0,9%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●	0,2% - 0,5%	WET ●●● DRY ●●
SOFTENER	●●●	0,3% - 0,9%	WET ●●●● DRY ●●●
APC	●●●	0,1% - 0,4%	
CANDLE	●●●	0,2% - 1%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

NORLIMBANOL® is part of Firmenich iconic woody amber signatures, in the footsteps of Z11.

NORLIMBANOL® DEXTRO
967406

WOODY

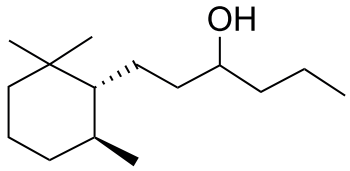
AMBERY

CHEMICAL SYNTHESIS

(+)-(3R)-1-[(1R,6S)-2,2,6-Trimethylcyclohexyl]-3-hexanol



CAS NUMBER	0070788-30-6
REACH NUMBER	01-2120085417-50
FEMA NUMBER	
RENEWABLE CARBON	>50%
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Powerful dry woody and ambery note.

Purest key olfactive isomer available on the market, NORLIMBANOL® DEXTRO is a breakthrough innovative molecule.

PERFUMERY USAGE

A complex and diffusive woody ambery note that gives vibrant effects to the complete olfactive pyramid from top to base.

Beaming with elegant musky notes, it offers the creamy warmth of Amber.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.52
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.01 Pa at 20°C
MOLECULAR WEIGHT	226
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,3% - 2%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●●	0,08% - 0,3%	WET ●●●● DRY ●●●
SHOWER GEL	●●●●	0,3% - 1%	BLOOM ●●●
SOAP	●●●●	0,2% - 0,6%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●●	0,1% - 0,8%	WET ●●●● DRY ●●●
SOFTENER	●●●●	0,3% - 1%	WET ●●●● DRY ●●●
APC	●●●	0,09% - 0,3%	
CANDLE	●●●●	0,6% - 3%	COLD WAX ●●●● BURNING ●●●●

DID YOU KNOW ?

NORLIMBANOL® DEXTRO is part of Firmenich iconic woody amber signatures, in the footsteps of Z11 and NORLIMBANOL®.

OXANE 50 TEC
969380

FRUITY

CITRUS

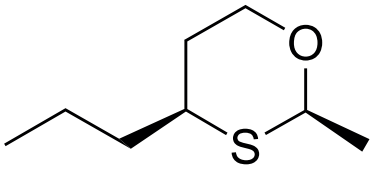
CHEMICAL SYNTHESIS

CAS NUMBER	0059323-76-1
REACH NUMBER	01-2120065073-64
FEMA NUMBER	3578

GREEN CHEMISTRY SCORE 50 - 70%

1,3-Oxathiane, 2-methyl-4-propyl-, cis-





OLFACTIVE DESCRIPTION

An extremely powerful ingredient essential for exotic, grapefruit and blackcurrant signature.

PERFUMERY USAGE

A unique ingredient, performing very well in citrus and exotic fruity notes, but also in jasmine, rose and muguet florals, as well as in green aldehydic perfumes.

Traces of OXANE will add unique effects to any fragrance creation and combines well with ISOSPIRENE.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.11
APPEARANCE	LIQUID
FLASHPOINT	77°C
VAPOUR PRESSURE	20.13 Pa at 20°C
MOLECULAR WEIGHT	161
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●	TRACES - 0,04%	TOP NOTE			
SHAMPOO	●●●	0,01% - 0,06%	WET	●●●●	DRY	●●●
SHOWER GEL	●●●	0,02% - 0,1%	BLOOM	●●●		
SOAP	●●●	0,02% - 0,1%	FOAM	●●●●	DRY HAND	●
DETERGENT	●●●	0,03% - 0,2%	WET	●●	DRY	●
SOFTENER	●●●	0,02% - 0,10%	WET	●●●●	DRY	●
APC	●●●	0,04% - 0,2%				
CANDLE	●●	0,03% - 0,1%	COLD WAX	●●	BURNING	●

DID YOU KNOW ?

OXANE, iconic Firmenich molecule, is one of the cornerstone of the legendary CASSIS BASE.

PHENYLETHYL ALCOHOL NAT
972375

FLORAL

ROSE

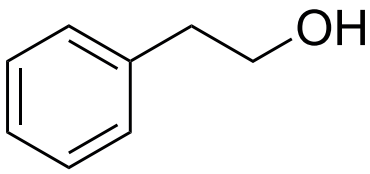
WHITE BIOTECHNOLOGY

CAS NUMBER	0000060-12-8
REACH NUMBER	01-2119963921-31
FEMA NUMBER	2858

RENEWABLE CARBON 100%

BIODEGRADABILITY Readily





OLFACTIVE DESCRIPTION

Rose, hyacinth, green.

PERFUMERY USAGE

Used in large quantities in fragrances for rose compositions and other blossom notes, it brings rose facets and boosts floral notes.

TENACITY

Lasts -
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	1.41
APPEARANCE	CLEAR LIQUID
FLASHPOINT	98°C
VAPOUR PRESSURE	1.96 Pa at 20°C
MOLECULAR WEIGHT	122
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS

DID YOU KNOW ?

PHENYLETHYL ALCOHOL is the main component of Rose oils obtained from rose blossom. It also occurs in Neroli, Ylang-Ylang, Carnation and Geranium oils.

PHENYLHEXANOL
973080

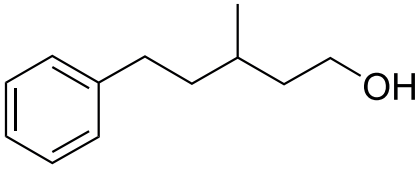
FLORAL

CHEMICAL SYNTHESIS

Benzenepentanol, .gamma.-methyl-



CAS NUMBER	0055066-48-3
REACH NUMBER	01-2119969446-23
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

A transparent floral rose and muguet note with a slight green aspect.

PERFUMERY USAGE

PHENYLHEXANOL gives good effect at a low level (e.g. 1%) yet can be used with excellent results up to 20%.

Because of its soft flowery note, it can be used in all perfume types.

Extremely long-lasting and more tenacious than Phenylethyl Alcohol.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.02 Pa at 20°C
MOLECULAR WEIGHT	179
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,7% - 3%	HEART NOTE			
SHAMPOO	●●●●	1% - 7%	WET	●●●●	DRY	●●●●
SHOWER GEL	●●●	1% - 5%	BLOOM	●●●		
SOAP	●●●	2% - 6%	FOAM	●●●	DRY HAND	●●●
DETERGENT	●●●	2% - 6%	WET	●●●	DRY	●●●
SOFTENER	●●●●	2% - 9%	WET	●●●●	DRY	●●●●
APC	●●	2% - 6%				
CANDLE	●●●	0,9% - 3%	COLD WAX	●●●	BURNING	●●

DID YOU KNOW ?

PHYSEOL
963479

WOODY

VIOLET - ORRIS

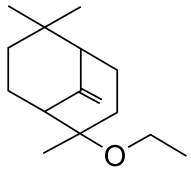
CHEMICAL SYNTHESIS

(+-)-2-Ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane



CAS NUMBER 0068845-00-1
REACH NUMBER
FEMA NUMBER

GREEN CHEMISTRY SCORE 70 - 100%



OLFACTIVE DESCRIPTION

An elegant woody powdery note that provides depth and warmth in fragrances, enhancing the ambery and orris facets. It gives also a sublime volume to woody vetiver notes, whilst bringing a subtile leathery warmth.

PERFUMERY USAGE

Very efficient in composition, due to the advantage of combining together woody and floral-powdery effects.

Extremely stable in a large scale of pH (5 to 12), it allows an interesting usage in many applications.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	6.5
APPEARANCE	LIQUID
FLASHPOINT	89°C
VAPOUR PRESSURE	1.32 Pa at 20°C
MOLECULAR WEIGHT	223
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,2% - 1%				
SHAMPOO	●●●●	0,04% - 0,4%	WET	●●●	DRY	●●
SHOWER GEL	●●●●	0,02% - 0,2%	BLOOM	●●●		
SOAP	●●●●	0,02% - 0,2%	FOAM	●●●	DRY HAND	●●
DETERGENT	●●●	TRACES	WET	●●●	DRY	●●
SOFTENER	●●●●	0,02% - 0,1%	WET	●●●●	DRY	●●●
APC	●●	0,01% - 0,09%				
CANDLE	●●●●	0,2% - 0,7%	COLD WAX	●●●	BURNING	●●

DID YOU KNOW ?

A rare and unexpected way to bring together woody and floral notes!

PLICATONE
974482

AROMATIC

FRUITY

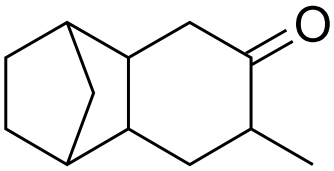
CHEMICAL SYNTHESIS

1,4-Methanonaphthalen-6(2H)-one, octahydro-7-methyl-

CAS NUMBER	0041724-19-0
REACH NUMBER	01-2120084676-43
FEMA NUMBER	

GREEN CHEMISTRY SCORE 50 - 70%





OLFACTIVE DESCRIPTION

Aromatic, Artemisia, pine, fruity, floral-violet.

Natural, smooth, aromatic, herbal, woody and fruity note.

PLICATONE recalls artemisia, pine, juniper berry and cedar with an appealing, slightly fruity undertone.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.26
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	1.28 Pa at 20°C
MOLECULAR WEIGHT	179
BOILING POINT	-

PERFUMERY USAGE

PLICATONE combines to perfection interesting effects of fougere, lavender, pine and spicy notes.

The woody facets bring lift, and the mossy one's give natural freshness to the perfume.

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,1% - 0,5%	TOP AND HEART NOTE
SHAMPOO	●●●●	0,08% - 0,9%	WET ●●●● DRY ●●
SHOWER GEL	●●●	0,1% - 0,5%	BLOOM ●●●
SOAP	●	0,09% - 0,4%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●	0,08% - 0,2%	WET ●●● DRY ●
SOFTENER	●●●●	0,1% - 0,5%	WET ●●●● DRY ●●
APC	●●	0,02% - 0,2%	
CANDLE	●●●	0,06% - 0,4%	COLD WAX ●●●● BURNING ●●●

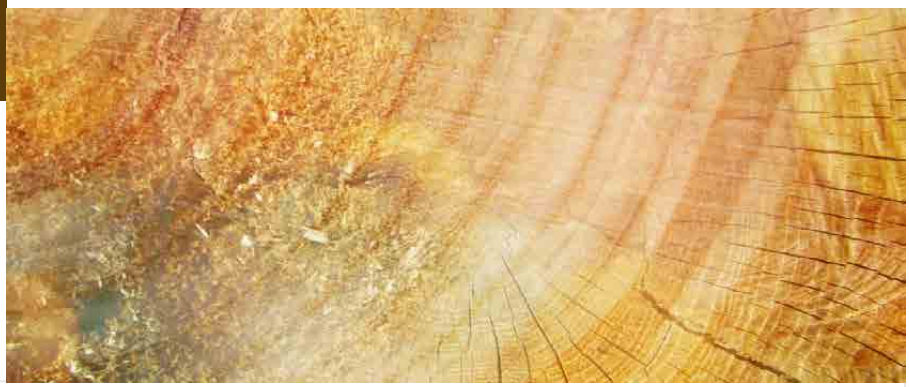
DID YOU KNOW ?

POLYSANTOL®
974656

WOODY

CHEMICAL SYNTHESIS

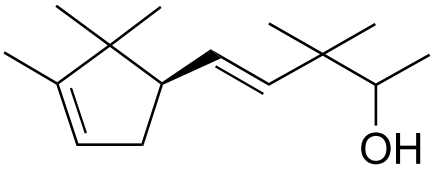
4-Penten-2-ol, 3,3-dimethyl-5-(2,2,3- trimethyl-3-cyclopenten-1-yl)-



CAS NUMBER	0107898-54-4
REACH NUMBER	01-0000015895-58
FEMA NUMBER	

RENEWABLE CARBON >50%

GREEN CHEMISTRY SCORE 50 - 70%



OLFACTIVE DESCRIPTION

A rich and diffusive sandalwood note offering great strength.

PERFUMERY USAGE

POLYSANTOL® is a very substantive and cost efficient material.

It gives wonderful diffusive sandalwood effects wherever it is used.

A real sandalwood character can be obtained throughout the whole perfume in top, middle and base notes.

TENACITY

Lasts 2 weeks on a smelling strip

- 1 MONTH
- 3 WEEKS
- 2 WEEKS
- 1 WEEK
- 4 DAYS
- 3 DAYS
- 2 DAYS
- 1 DAY
- 6 HOURS
- 3 HOURS
- 2 HOURS
- 1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.77
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.01 Pa at 20°C
MOLECULAR WEIGHT	222
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,6% - 2%	HEART AND BASE NOTE
SHAMPOO	●●●●	0,3% - 0,9%	WET ●●●● DRY ●●●
SHOWER GEL	●●●●	0,4% - 1%	BLOOM ●●●●
SOAP	●●●●	0,3% - 1,0%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●●	0,3% - 0,7%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,3% - 1,0%	WET ●●●● DRY ●●●
APC	●●●	0,1% - 0,4%	
CANDLE	●●●●	0,5% - 2%	COLD WAX ●●●● BURNING ●●●

DID YOU KNOW ?

Firmenich research allowed the advent of woody sandalwood notes in the perfumery industry, until then limited by the natural production of natural sandalwood.

RHUBOFIX®
978880

WOODY

FLORAL

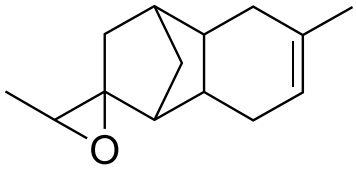
CHEMICAL SYNTHESIS

CAS NUMBER	0041816-03-9
REACH NUMBER	01-2120085380-59
FEMA NUMBER	

GREEN CHEMISTRY SCORE 50 - 70%

Spiro[1,4-methanonaphthalene-2(1H),2'- oxirane], 3,4,4a,5,8,8a-hexahydro-3',7-dimethyl-





OLFACTIVE DESCRIPTION

Complex woody, spicy, floral and fruity note.

It has a zesty freshness and unique green rhubarb effect.

PERFUMERY USAGE

RHUBOFIX® blends very well with woody, spicy, rose, bergamot and lavender notes.

With salicylates, interesting spicy effects can be obtained particularly if sweetened by Heliotropium accords or similar materials.

Its delicate green-woody nuance also harmonizes effectively with citrus notes, in particular lemon and grapefruit.

TENACITY

Lasts 4 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.58
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.98 Pa at 20°C
MOLECULAR WEIGHT	204
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,02% - 0,4%	HEART NOTE			
SHAMPOO	●●●	TRACES - 0,04%	WET	●●●	DRY	●●●
SHOWER GEL	●●●	0,03% - 0,3%	BLOOM	●●●		
SOAP	●●●	0,04% - 0,5%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●	TRACES - 0,05%	WET	●●●●	DRY	●●
SOFTENER	●●●●	0,04% - 0,2%	WET	●●●	DRY	●●●
APC	●●●	0,02% - 0,1%				
CANDLE	●●●	0,04% - 0,3%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

RHUBOFLOR
978891

GREEN

FRUITY

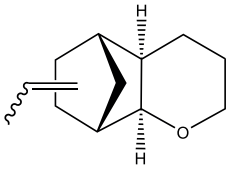
CHEMICAL SYNTHESIS

CAS NUMBER	0093939-86-7
REACH NUMBER	01-2120042867-48
FEMA NUMBER	

GREEN CHEMISTRY SCORE 70 - 100%

5,8-Methano-2H-1-benzopyran, 6-ethylideneoctahydro-





OLFACTIVE DESCRIPTION

Powerful, green, fruity berry, floral and herbal notes.

The undertone recalls orris, carrot seed and hyacinth.

PERFUMERY USAGE

Surprising effects can be achieved at very low dosages.

It blends well with rose, orris and orange flower notes and with the green herbal and lavender themes.

TENACITY

Lasts 6 hours on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.47
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	5.23 Pa at 20°C
MOLECULAR WEIGHT	179
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS			
FINE FRAGRANCES	●●●●	0,03% - 0,2%	TOP AND HEART NOTE			
SHAMPOO	●●●●	0,03% - 0,2%	WET	●●●	DRY	●●●
SHOWER GEL	●●●	0,03% - 0,1%	BLOOM	●●●		
SOAP	●●●●	0,04% - 0,3%	FOAM	●●●●	DRY HAND	●●●●
DETERGENT	●●●	0,08% - 0,2%	WET	●●●	DRY	●●
SOFTENER	●●●●	0,2% - 0,5%	WET	●●●	DRY	●●●
APC	●●●	0,08% - 0,4%				
CANDLE	●●●	0,1% - 0,3%	COLD WAX	●●●	BURNING	●●●

DID YOU KNOW ?

ROMANDOLIDE®
979031

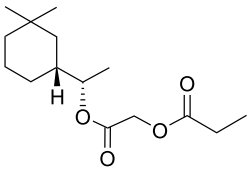
MUSKY

CHEMICAL SYNTHESIS

Acetic acid, (1-oxopropoxy)-, 1-(3,3-dimethylcyclohexyl) ethyl ester (9CI)



CAS NUMBER	0236391-76-7
REACH NUMBER	01-0000017792-64
FEMA NUMBER	
RENEWABLE CARBON	>50%
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

ROMANDOLIDE® is a very delicate musky note.

Less fruity and Ambrette than HELVETOLIDE®, with more tenacity and volume on the dry down.

PERFUMERY USAGE

With its soft and delicate balsamic facets, ROMANDOLIDE® is reminiscent of the typical note of some polycyclic musk without belonging to that chemical family.

Being part of the Alicyclic Musk family, it remains like a top note musk.

ROMANDOLIDE® is readily biodegradable.

TENACITY

Lasts 2 weeks on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.56
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.10 Pa at 20°C
MOLECULAR WEIGHT	284
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	5% - 18%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●●	5% - 18%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	3% - 10%	BLOOM ●●●●
SOAP	●●●	3% - 9%	FOAM ●●●● DRY HAND ●●●
DETERGENT	●●●	2% - 5%	WET ●●● DRY ●●
SOFTENER	●●●	3% - 8%	WET ●●●● DRY ●●●
APC	●●●	1% - 4%	
CANDLE	●●●	1% - 5%	COLD WAX ●●● BURNING ●●●

DID YOU KNOW ?

From a Nobel Prize in Chemistry in 1939 to today, Firmenich has been dedicated to Macrocyclic and Alicyclic Musk for over 90 years. These years of dedication and persistence have resulted in Firmenich becoming the leader in this science and recognized as the House of Musk.

ROMASCONE
979035

AROMATIC

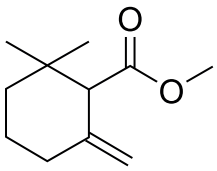
CHEMICAL SYNTHESIS

Methyl 2,2-dimethyl-6-methylene-1-cyclohexanecarboxylate



CAS NUMBER	0081752-87-6
REACH NUMBER	01-0000017852-66
FEMA NUMBER	

BIODEGRADABILITY: Partially



OLFACTIVE DESCRIPTION

Aromatic and damascone-like.

It has herbaceous, rosemary and thuyonic aspects, with a damascone fruity undertone.

Becomes more aromatic when the dosage is increased; more fruity when very diluted.

PERFUMERY USAGE

It can be used like any other damascone.

Effective at very low levels. Can be used either in aromatic compositions to enhance the aromatic herbal notes or in other fragrances to give a fruity berry aspect.

ROMASCONE is the Cyclo-Geraniate corresponding to GAMMA DAMASCONE.

TENACITY

Lasts 1 hour on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.93
APPEARANCE	LIQUID
FLASHPOINT	74°C
VAPOUR PRESSURE	12.81 Pa at 20°C
MOLECULAR WEIGHT	182
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,2% - 0,8%	TOP NOTE
SHAMPOO	●●●	0,07% - 0,3%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,1% - 0,3%	BLOOM ●●●
SOAP	●●●●	0,08% - 0,3%	FOAM ●●●● DRY HAND ●
DETERGENT	●●●	0,09% - 0,5%	WET ●●● DRY ●
SOFTENER	●●●●	0,02% - 0,07%	WET ●●●● DRY ●
APC	●●●	0,04% - 0,2%	
CANDLE	●●●	0,10% - 0,4%	COLD WAX ●●● BURNING ●●

DID YOU KNOW ?

Firmenich is recognized for its rose ketones which are now under the scope of IFRA limitation due to sensitizing effects.
Corresponding esters are not sensitizing and Firmenich has developped many patented synthetics in this range. (Cyclo-geraniates)

SALICYNILE®
981050

FLORAL

WHITE FLOWER

CHEMICAL SYNTHESIS

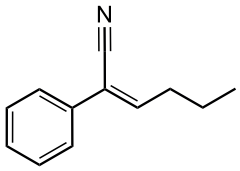
Benzeneacetonitrile, alpha-butylidene-, (Z)-



CAS NUMBER	0130786-09-3
REACH NUMBER	01-0000020158-73
FEMA NUMBER	

BIODEGRADABILITY: Partially

GREEN CHEMISTRY SCORE: 50 - 70%



OLFACTIVE DESCRIPTION

The smell of a delicate bouquet of white flowers with fruity notes reminiscent of banana and pear. Nuances of solar flowers gives a sunny and radiant effect.

PERFUMERY USAGE

SALICYNILE® is used as a salicylate top note such as hexyl or amyl salicylate or as a versatile floral building block.

It is much more stable than salicylates especially in Home Care applications and blends particularly well with all kind of floral or fougere accords.

TENACITY

Lasts 2 days
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.29
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	5.33 Pa at 20°C
MOLECULAR WEIGHT	171
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,4% - 2%	TOP AND HEART NOTE
SHAMPOO	●●●	1% - 3%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	0,8% - 2%	BLOOM ●●●
SOAP	●●●●	0,7% - 2%	FOAM ●● DRY HAND ●●●
DETERGENT	●●●●	1% - 3%	WET ●●● DRY ●●●
SOFTENER	●●●●	0,8% - 2%	WET ●●●● DRY ●●●
APC	●●●	N/A - N/A	
CANDLE	●●●	N/A - N/A	COLD WAX ●●●● BURNING ●●●●

DID YOU KNOW ?

SALICYNILE® is a Firmenich Signature ingredient (no other existing supplier).

SCENTENAL®
981810

WATERY

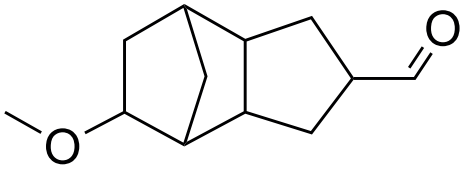
GREEN

CHEMICAL SYNTHESIS

CAS NUMBER	0086803-90-9
REACH NUMBER	01-0000017614-70
FEMA NUMBER	
BIODEGRADABILITY	Partially
GREEN CHEMISTRY SCORE	70 - 100%

4,7-Methano-1H-indene-2- carboxaldehyde, octahydro-5-methoxy-





OLFACTIVE DESCRIPTION

Complex aldehyde marine note associated with a watery green floral character and slightly mossy undertones.
With discrete fruity pear facets, the profile is also slightly alcoholic.

PERFUMERY USAGE

Its value is best appreciated in combination with other green notes, in chypres, eau de colognes, masculine notes and sheer floral types.

It is an excellent modifier or enhancer of other ozone marine notes.

TENACITY

Lasts 2 weeks
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.01
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	0.33 Pa at 20°C
MOLECULAR WEIGHT	194
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,09% - 0,3%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●●	0,2% - 0,9%	WET ●●●● DRY ●●●
SHOWER GEL	●●●	0,2% - 0,4%	BLOOM ●●
SOAP	●●●●	0,2% - 1%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●	0,2% - 0,4%	WET ●● DRY ●●
SOFTENER	●●●●	0,4% - 1%	WET ●●●● DRY ●●●
APC	●●	0,7% - 2%	
CANDLE	●●	0,2% - 0,4%	COLD WAX ●●● BURNING ●●

DID YOU KNOW ?

SCENTENAL® has been discovered in the footsteps of CALONE®, one of the very first watery molecule in the perfumery industry, invented by Firmenich, to launch the new marine fragrance trend in the 1990s.

SCLAREOLATE®
981816

FLORAL

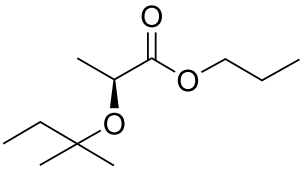
AROMATIC

CHEMICAL SYNTHESIS

Propyl (2S)-2-(1,1-dimethylpropoxy)- propanoate



CAS NUMBER	0319002-92-1
REACH NUMBER	01-0000018277-65
FEMA NUMBER	
BIODEGRADABILITY	Partially
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

SCLAREOLATE® is a very natural white floral sage note, between Linalol and Linalylacetate.

SCLAREOLATE® recalls clean white floral notes playing within a traditional clary sage aromatic profile.

PERFUMERY USAGE

Extremely stable in composition, SCLAREOLATE®'s true freshness and tenacity empower the signature of a perfume.

SCLAREOLATE® can be used like Linalol, Dihydromyrcenol and CORANOL with high and low dosages for different effects.

Good effect in Citrus / Lavender accords.

TENACITY

Lasts 2 hours on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	3.17
APPEARANCE	LIQUID
FLASHPOINT	87°C
VAPOUR PRESSURE	12.08 Pa at 20°C
MOLECULAR WEIGHT	202
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	2% - 7%	TOP NOTE
SHAMPOO	●●●	4% - 11%	WET ●●● DRY ●
SHOWER GEL	●●●	3% - 8%	BLOOM ●●●
SOAP	●●●	3% - 8%	FOAM ●● DRY HAND ●
DETERGENT	●●	3% - 10%	WET ●● DRY ●
SOFTENER	●●●	4% - 12%	WET ●●● DRY ●
APC	●●	2% - 8%	
CANDLE	●●●	4% - 19%	COLD WAX ●● BURNING ●●

DID YOU KNOW ?

The key success factor of SCLAREOLATE®: a molecule that complies with every safety factor as well as being highly performant and interesting in its olfactive facets.

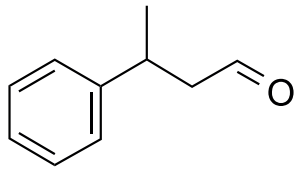
TRIFERNAL®
989007

GREEN
CHEMICAL SYNTHESIS

Benzenepropanal, .beta.-methyl-



CAS NUMBER	0016251-77-7
REACH NUMBER	01-2120025260-75
FEMA NUMBER	
BIODEGRADABILITY	Readily
GREEN CHEMISTRY SCORE	70 - 100%



OLFACTIVE DESCRIPTION

Very powerful and diffusive green note that is reminiscent of the natural bitter green character of some flowers and crushed foliage.

PERFUMERY USAGE

TRIFERNAL® can be used to give excellent natural effects in many floral perfumes based on lilac, hyacinth, violet or muguet in combination with other green notes as well as in aromatic and cologne creations.

Very effective at low levels.

TENACITY

Lasts 1 week
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	2.34
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	7.40 Pa at 20°C
MOLECULAR WEIGHT	148
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,01% - 0,10%	TOP, HEART AND BASE NOTE
SHAMPOO	●●●	0,2% - 0,5%	WET ●● DRY ●●
SHOWER GEL	●●●	0,08% - 0,3%	BLOOM ●●●●
SOAP	●●●	0,2% - 0,6%	FOAM ●●●● DRY HAND ●●
DETERGENT	●●●●	0,4% - 2%	WET ●●● DRY ●
SOFTENER	●●●●	0,2% - 0,5%	WET ●●●● DRY ●●
APC	●●●	0,3% - 0,9%	
CANDLE	●●●●	0,07% - 0,4%	COLD WAX ●●● BURNING ●●

DID YOU KNOW ?

VELOUTONE®
990257

FLORAL

FRUITY

CHEMICAL SYNTHESIS

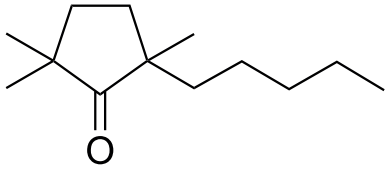
Cyclopentanone, 2,2,5-trimethyl-5-pentyl-



CAS NUMBER	0065443-14-3
REACH NUMBER	01-2120121429-60
FEMA NUMBER	

BIODEGRADABILITY: Partially

GREEN CHEMISTRY SCORE: 70 - 100%



OLFACTIVE DESCRIPTION

Jasmine, lactonic and fruity odor.

Reminiscent of peach and apricot with a hint of lavender.

PERFUMERY USAGE

VELOUTONE® has very wide use because of its exceptional stability.

It delivers a wonderful soft floral note, in jasmine, tuberose and honeysuckle creations as well as muguet lilac and fruity notes.

It gives interesting effects in lavender and herbal fragrances.

TENACITY

Lasts 2 days on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.63
APPEARANCE	LIQUID
FLASHPOINT	90°C
VAPOUR PRESSURE	1.25 Pa at 20°C
MOLECULAR WEIGHT	196
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●	0,02% - 0,2%	TOP AND HEART NOTE
SHAMPOO	●●●	0,10% - 0,8%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,07% - 0,9%	BLOOM ●●●
SOAP	●●●	0,07% - 0,8%	FOAM ●●●● DRY HAND ●●●●
DETERGENT	●●●	0,09% - 0,4%	WET ●●●● DRY ●
SOFTENER	●●●	0,1% - 0,8%	WET ●●●● DRY ●●●
APC	●●●	0,2% - 0,9%	
CANDLE	●●●	0,07% - 0,5%	COLD WAX ●●● BURNING ●●

DID YOU KNOW ?

VELOUTONE® is part of HEDIONE® family.

HEDIONE® was discovered by Firmenich scientist, Dr.Edouard Demole in 1958 as part of the methyl jasmonate synthesis.

HEDIONE® brings to mind the old adage, "He who wishes to be heard will always whisper".

VIOLETTYNE 10 MIP
991805

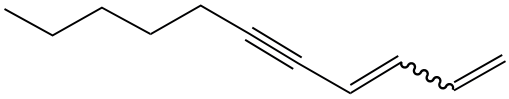
GREEN

CHEMICAL SYNTHESIS

1,3-Undecadien-5-yne



CAS NUMBER	0166432-52-6
REACH NUMBER	01-0000016462-74
FEMA NUMBER	
RENEWABLE CARBON	>50%
GREEN CHEMISTRY SCORE	50 - 70%



OLFACTIVE DESCRIPTION

Nice fruity-green, strongly violet-leaf note reminiscent of Methyl Octine and Methyl Heptine Carbonate with a nice Galbanum undertone.

PERFUMERY USAGE

It can replace Methyl Octine or Methyl Heptine Carbonate, or be used as a new fresh green note.

A very stable and powerful green violet leaf note with a unique cucumber or bell pepper aspect.

TENACITY

Lasts 1 day
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	5.11
APPEARANCE	LIQUID
FLASHPOINT	77°C
VAPOUR PRESSURE	37.46 Pa at 20°C
MOLECULAR WEIGHT	148
BOILING POINT	-

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,2% - 0,8%	TOP NOTE
SHAMPOO	●●●	0,10% - 0,3%	WET ●●●● DRY ●●●●
SHOWER GEL	●●●	0,3% - 2%	BLOOM ●●●●
SOAP	●●●●	0,2% - 2%	FOAM ●● DRY HAND ●
DETERGENT	●●●	0,2% - 0,7%	WET ●●●● DRY ●●●
SOFTENER	●●●●	0,3% - 1%	WET ●●●● DRY ●●●
APC	●●●	0,10% - 0,3%	
CANDLE	●●●	0,2% - 0,6%	COLD WAX ●●● BURNING ●●

DID YOU KNOW ?

Z11 10 MIP
992964

WOODY

AMBERY

VIA WHITE BIOTECHNOLOGY

5H-3,5a-Epoxynaphth[2,1-c]oxepin, dodecahydro-3,8,8,11a-tetramethyl-

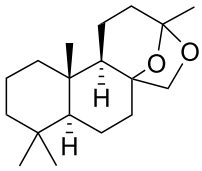


CAS NUMBER
REACH NUMBER
FEMA NUMBER

RENEWABLE CARBON >50%

BIODEGRADABILITY Ultimately

GREEN CHEMISTRY SCORE 50 - 70%



TENACITY

Lasts 1 month
on a smelling strip

1 MONTH
3 WEEKS
2 WEEKS
1 WEEK
4 DAYS
3 DAYS
2 DAYS
1 DAY
6 HOURS
3 HOURS
2 HOURS
1 HOUR

PHYSICO-CHEMICAL PROPERTIES

LOG P (MEASURED)	4.59
APPEARANCE	LIQUID
FLASHPOINT	>100°C
VAPOUR PRESSURE	-
MOLECULAR WEIGHT	-
BOILING POINT	-

OLFACTIVE DESCRIPTION

Dry, woody and ambery notes, with a strong trigeminal effect.

Z11 is a molecule alive with a thousand sensations.

Its dryness, tenacity and sleek elegance call to mind a precious wood rimmed in shining metal...unforgiving in its strength and designed for pure performance.

Z11's true character emotionally empowers the signature of a perfume.

PERFUMERY USAGE

A 10% dilution in DIPG is available: 992963 Z11 10 DIPG.

The process combines the best of white biotechnology and green chemistry, resulting in a renewable ingredient while ensuring stable quality, reliable supply and with unlimited future availability.

The chemical structure is close to AMBROX®.

STABILITY & PERFORMANCE

RECOMMENDED APPLICATIONS	STABILITY	CONCENTRATION AVG - MAX	SUBSTANTIVITY & REMARKS
FINE FRAGRANCES	●●●●	0,6% - 2%	HEART AND BASE NOTE
SHAMPOO	●●●	0,2% - 0,4%	WET ●●● DRY ●●
SHOWER GEL	●●●	0,4% - 1%	BLOOM ●●●
SOAP	●●●	0,3% - 0,8%	FOAM ●●● DRY HAND ●●
DETERGENT	●●●●	0,02% - 0,06%	WET ●●●● DRY ●●●●
SOFTENER	●●●●	0,07% - 0,3%	WET ●●●● DRY ●●●●
APC	●●●●	0,09% - 0,4%	
CANDLE	●●●●	0,6% - 2%	COLD WAX ●●●● BURNING ●●●●

DID YOU KNOW ?

«Z» comes from Zurich University. It was the 11th molecule discovered during our works with Pr. Ruzicka. Originally made from Manool as a starting material, which was extracted from a tree (Manao) in New Zealand, now produced by biotechnology.

AMBRANUM
908685

AMBERY

BALSAMIC

NATURAL SPECIALTY

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

The profile is sensual, resinous, warm and highly remanent.
Slighly vanillic and balsamic, it offers gourmand facets.

PERFUMERY USAGE

A natural base for fragrance creations.

AMBRANUM is a light amber colored liquid relatively easy to work with. Perfectly soluble, it can be used in automated processes.

Ambery notes from Labdanum and Olibanum are uniquely associated.
In accordance with current regulations, AMBRANUM doesn't contain any animalic compounds.

It fits oriental accords, imparting a feeling of well-being and "zen-attitude".
Cost-effective, it enhances various characteristics of other compositions, notably citrus.

SOURCING

Cistus collection is regulated by a permit system in Spain.



Firmenich Main Sourcing Country
SPAIN

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

AMBRETTE ABS
908840

MUSKY

FLORAL

ABSOLUTE

Hibiscus abelmoschus



CAS NUMBER	0008015-62-1
REACH NUMBER	
FEMA NUMBER	2050

OLFACTIVE DESCRIPTION

The olfactive profile is rich, with musky, sweet, powdery and floral facets.

It is also slightly animalic, fruity and anisic, with a good tenacity.

PERFUMERY USAGE

AMBRETTE ABS is widely used as a light musk bottom note for delicate florals, as well as an accessory note in oriental perfumes.



● Firmenich Main Sourcing Country
PERU

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried seeds.
App.400 Kg of seeds to produce 1 Kg of purified Essential oil.
The oil is solid at room temperature, thus called "Ambrette abs".
This ingredient is both convenient for perfumery and flavor applications.

BEESWAX ABS
925005

GOURMAND

SWEET

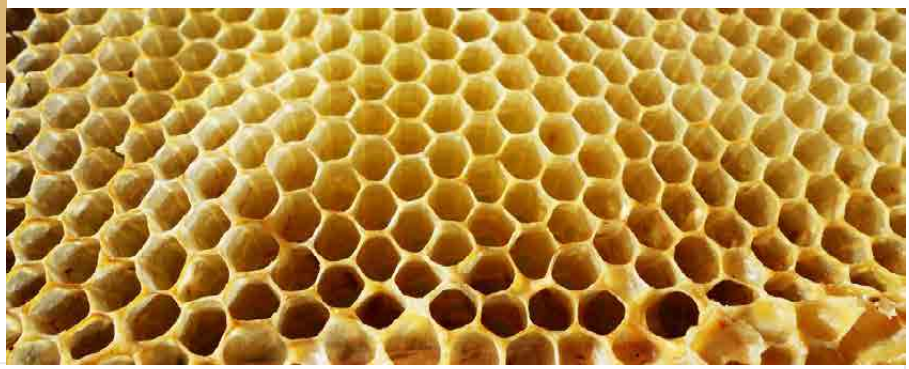
ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Cera alba



OLFACTIVE DESCRIPTION

Gourmand, sweet, balsamic, honey, hay, tobacco, spicy, nuts.

PERFUMERY USAGE

BEESWAX ABS brings natural honey facets and boosts floral notes.

SOURCING

Firmenich is among the last actors to source honeycombs from local beekeepers in the South of France (Var, Drôme, Hautes-Alpes, Alpes Maritimes and Vaucluse) whose quality is fully traceable.

Honeycombs are collected from beehives directly from a community of French beekeepers, before and after the honey harvest season.

Extraction is performed at the Firmenich factory of Tourettes (South of France).
After extraction, the remaining beeswax is sold to create candles or for cosmetics use.

Firmenich's sourcing agreements with suppliers guarantee a premium quality as the purchased honeycombs are untreated, with no naphthalene.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■					■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: wax.
This ingredient is both convenient for perfumery and flavor applications.

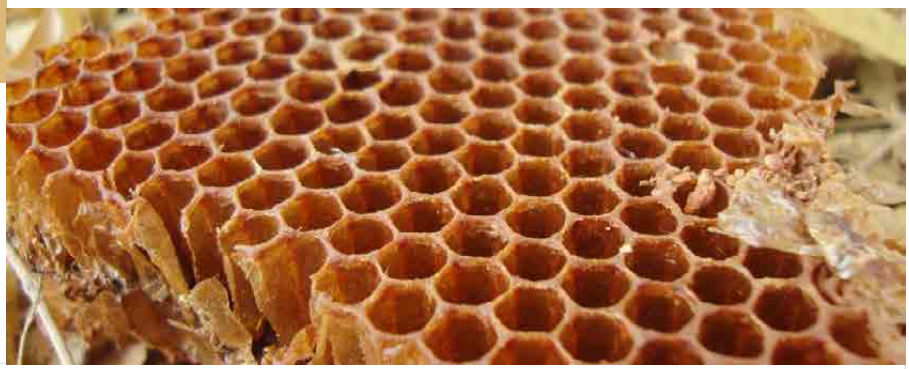
BEESWAX ABS TYPE NAT
220412

GOURMAND

SWEET

ABSOLUTE

Cera alba



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Gourmand, sweet, balsamic, honey, hay, tobacco, spicy, nuts, green, floral.

The wax supports animalic and honey-like notes, giving a cosmetic effect.

PERFUMERY USAGE

BEESWAX ABS TYPE NAT brings natural honey facets and boosts floral notes.

SOURCING

Firmenich is among the last actors to source honeycombs from local beekeepers in the South of France (Var, Drôme, Hautes-Alpes, Alpes Maritimes and Vaucluse) whose quality is fully traceable.

Honeycombs are collected from beehives directly from a community of French beekeepers, before and after the honey harvest season.

Extraction is performed at the Firmenich factory of Tourettes (South of France).
After extraction, the remaining beeswax is sold to create candles or for cosmetics use.

Firmenich's sourcing agreements with suppliers guarantee a premium quality as the purchased honeycombs are untreated, with no naphthalene.



Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■					■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: wax.

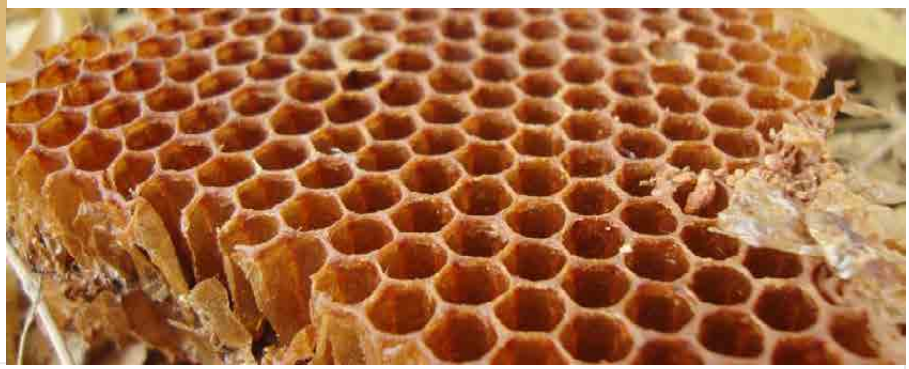
BEESWAX HONEYCOMB ABS
924605

GOURMAND

SWEET

ABSOLUTE

Cera alba



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Gourmand, sweet, balsamic, honey, hay, tobacco, spicy, nuts.

The honeycomb, rich in honey enhances the honey-like and floral notes together with a gourmand, sweet and warm effect.

PERFUMERY USAGE

BEESWAX HONEYCOMB ABS brings natural honey facets and boosts floral notes.

SOURCING

Firmenich is among the last actors to source honeycombs from local beekeepers in the South of France (Var, Drôme, Hautes-Alpes, Alpes Maritimes and Vaucluse) whose quality is fully traceable.

Honeycombs are collected from beehives directly from a community of French beekeepers, before and after the honey harvest season.

Extraction is performed at the Firmenich factory of Tourettes (South of France).
After extraction, the remaining beeswax is sold to create candles or for cosmetics use.

Firmenich's sourcing agreements with suppliers guarantee a premium quality as the purchased honeycombs are untreated, with no naphthalene.



Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■					■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: wax.
This ingredient is both convenient for perfumery and flavor applications.

BENZOIN SIAM RES
915058

BALSAMIC

AMBERY

RESINOID

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Styrax tonkinensis



OLFACTIVE DESCRIPTION

Benzoin Siam has warm, balsamic and vanilla facets.

BENZOIN SIAM RES profile is typically resinous and spicy with an almondy facet.

PERFUMERY USAGE

Sweet, delicate, with a slightly cinnamic profile, Benzoin is a typical ambery-balsamic key ingredient for perfumery.

It can be used to boost oriental and ambery notes in composition.



● Firmenich Main Sourcing Country
LAOS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

BENZOIN SIAM RES 40 DIPG
915085

BALSAMIC

AMBERY

RESINOID

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Styrax tonkinensis



OLFACTIVE DESCRIPTION

Benzoin Siam has warm, balsamic and vanilla facets.

BENZOIN SIAM RES 40 DIPG profile is typically resinous and spicy with an almondy facet.

PERFUMERY USAGE

Sweet, delicate, with a slightly cinnamic profile, Benzoin is a typical ambery-balsamic key ingredient for perfumery.

It can be used to boost oriental and ambery notes in composition.



● Firmenich Main Sourcing Country
LAOS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

BENZOIN SIAM RES SUBST DIPG
184235

BALSAMIC

AMBERY

NATURAL SPECIALTY

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

Sweet, delicate, with a slightly cinnamic profile, Benzoin is a typical ambery-balsamic key ingredient for perfumery.

Warm, vanilla-like, balsamic and slightly spicy, this Benzoin reconstitution behaves like a natural Benzoin extract.

PERFUMERY USAGE

This ingredient is a composition of natural extracts and synthetic molecules (some of which are captive).
It does not contain natural Benzoin.

As a reconstitution,
• It can be used at a ratio of 1/1 versus natural extracts.
• Clearer in color than traditional natural extracts, it can be used in a greater number of applications.
• The use of carrier ensures perfect solubility and is convenient in automated workshops.

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

This ingredient does not contain natural Benzoin.

BENZOIN SIAM SFE
915063

BALSAMIC

AMBERY

SFE

Styrax tonkinensis



CAS NUMBER	0009000-72-0
REACH NUMBER	
FEMA NUMBER	2133

OLFACTIVE DESCRIPTION

Benzoin Siam has warm, balsamic and vanilla facets.

PERFUMERY USAGE

Sweet, delicate, with a slightly cinnamic profile, Benzoin is a typical ambery-balsamic key ingredient for perfumery.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country

LAOS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

BENZOIN SUMATRA RES
915034

BALSAMIC

AMBERY

RESINOID

Styrax benzoin



CAS NUMBER	0009000-05-9
REACH NUMBER	01-2120754430-62
FEMA NUMBER	2133

OLFACTIVE DESCRIPTION

In addition to the typical warm, balsamic profile with vanilla facets, Benzoin Sumatra extracts are more spicy and cinnamic but less gourmand than Benzoin Siam extracts.

This resinoid has a powdery specificity.

PERFUMERY USAGE

Sweet, delicate, with a slightly cinnamic profile, Benzoin is a typical ambery-balsamic key ingredient for perfumery.

It can be used to boost oriental and ambery notes in composition.

Benzoin Sumatra is particularly suitable for body care applications.



● Firmenich Main Sourcing Country
INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

BENZOIN SUMATRA RES 50 DIPG
915090

BALSAMIC

AMBERY

RESINOID

Styrax benzoin



CAS NUMBER	0009000-05-9
REACH NUMBER	
FEMA NUMBER	2133

OLFACTIVE DESCRIPTION

In addition to the typical warm, balsamic profile with vanilla facets, Benzoin Sumatra extracts are more spicy and cinnamic but less gourmand than Benzoin Siam extracts.

This resinoid has a powdery specificity.

PERFUMERY USAGE

Sweet, delicate, with a slightly cinnamic profile, Benzoin is a typical ambery-balsamic key ingredient for perfumery.

It can be used to boost oriental and ambery notes in composition.

Benzoin Sumatra is particularly suitable for body care applications.



● Firmenich Main Sourcing Country
INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

BLACKCURRANT BUD BURGUNDY ABS
921271

FRUITY

ABSOLUTE

Ribes nigrum



CAS NUMBER	0097676-19-2
REACH NUMBER	
FEMA NUMBER	2346

OLFACTIVE DESCRIPTION

Its fruity notes, with green and specific sulfurous hints, impart a sparkling and long lasting effect

PERFUMERY USAGE

Blackcurrant buds are used essentially in Fine Fragrance.

SOURCING

Over the last 10 years, Firmenich has developed strong relationships with two cooperatives in Burgundy, the first region for quality and volume of blackcurrant buds. These cooperatives have been created by 70 local producers.

Since the 2000's, they turned their manual harvest into a mechanical one by adapting existing machines to their specific needs.

Firmenich is part of the long-term development of the cooperatives, for example through the establishment of 5 years purchase commitments.

Firmenich is the only actor in the industry to produce blackcurrant buds essential oil, a unique expertise developed for more than 40 years.

The local sourcing in France allows Firmenich to extract fresh products in its Tourettes factory (South of France), enabling full control over traceability and quality.



Firmenich Main Sourcing Country

FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■										■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: buds.
120 kg of buds to obtain 3 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.
With more than 40 years' experience, Firmenich is a key player in the sector.

BRAN WHEAT SOFT ABS
982450

GOURMAND

SWEET

ABSOLUTE

Triticum aestivum



CAS NUMBER	0068916-76-7
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

A gourmand scent reminiscent of biscuits, hay and honey, with a very long-lasting sweet, fruity note.

PERFUMERY USAGE

BRAN WHEAT SOFT ABS reinforces the effect of natural wheat from different absolutes.



● Firmenich Main Sourcing Country

MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■						

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: outer layers of cereal grain.
This ingredient is both convenient for perfumery and flavor applications.

BROOM ABS
944945

FLORAL

BALSAMIC

ABSOLUTE

CAS NUMBER	0129316-65-0
REACH NUMBER	
FEMA NUMBER	2504

Spartium junceum



OLFACTIVE DESCRIPTION

Tobacco, hay-like, warm, honey, fruity, slightly bitter, floral and animal.

PERFUMERY USAGE

BROOM ABS brings a rich and natural effect to fragrances.

Its honey-like, sweet long-lasting and elegant profile offers nice element in floral, chypre and oriental notes.



● Firmenich Main Sourcing Country
ITALY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■					

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
This ingredient is both convenient for perfumery and flavor applications.

BUCHU EO AGED
917865

FRUITY

GREEN

ESSENTIAL OIL

CAS NUMBER	0068650-46-4
REACH NUMBER	
FEMA NUMBER	2169

Agathosma betulina



OLFACTIVE DESCRIPTION

Its scent is strong, mint and camphor-like, reminiscent of Blackcurrant sulfur notes.

PERFUMERY USAGE

Very powerful with a good tenacity.



Firmenich Main Sourcing Country

SOUTH AFRICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This ingredient is both convenient for perfumery and flavor applications.

CARDAMOM ABS
920375

SPICY
ABSOLUTE

Elletaria cardamomum



CAS NUMBER	0008000-66-6
REACH NUMBER	
FEMA NUMBER	2240

OLFACTIVE DESCRIPTION

Camphor, zesty, aromatic, coniferous.
A non-conventional Cardamom extract profile.
The presence of green pods enhances the Ginger characteristics.

PERFUMERY USAGE

CARDAMOM ABS brings spicy, warm and sweet notes in fine fragrances. In perfumery, Cardamom seeds are traditionally processed into essential oil and absolute. It can be used in blend with an essential oil to bring a fresh and spicy lasting effect. Suitable for tea note.

SOURCING

Firmenich sources Cardamom in Guatemala thanks to its Joint Venture in Central & Latin America, with Nelixia, leader of Cardamom EO and #NaturalsTogether partner.

Along Nelixia and a local NGO, Firmenich has implemented a long-term sourcing project on a responsible and traceable basis. The focus is on Cerro san Gil area, a natural reserve where deforestation is critical. The project managed to reach 100% of traceability, to increase local communities' empowerment and incomes by reorganizing the supply chain without external intermediaries and establishing a drying facility easily accessible for Q'eqchis communities.

Trees have been planted for reforestation, offering a diversification of revenues for farmers and shade for cardamom fields, which increases the crop yield.



Firmenich Main Sourcing Country
GUATEMALA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■							■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds and pods.

CARDAMOM GREEN POD SFE
920370

SPICY

SFE

Elletaria cardamomum



CAS NUMBER	0008000-66-6
REACH NUMBER	
FEMA NUMBER	2241

OLFACTIVE DESCRIPTION

Clean, pure and easy-to-use profile: a radiant top note, original, green, herbal, aromatic but also fresh and spicy.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Firmenich sources Cardamom in Guatemala thanks to its Joint Venture in Central & Latin America, with Nelixia, leader of Cardamom EO and #NaturalsTogether partner.

Along Nelixia and a local NGO, Firmenich has implemented a long-term sourcing project on a responsible and traceable basis. The focus is on Cerro san Gil area, a natural reserve where deforestation is critical. The project managed to reach 100% of traceability, to increase local communities' empowerment and incomes by reorganizing the supply chain without external intermediaries and establishing a drying facility easily accessible for Q'eqchis communities.

Trees have been planted for reforestation, offering a diversification of revenues for farmers and shade for cardamom fields, which increases the crop yield.



Firmenich Main Sourcing Country

GUATEMALA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■							■	■	■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds and pods.
This ingredient is both convenient for perfumery and flavor applications.

CARDAMOM GUATEMALA EO
920372

SPICY
ESSENTIAL OIL

Elletaria cardamomum



CAS NUMBER	0008000-66-6
REACH NUMBER	01-2120080371-63
FEMA NUMBER	2241

OLFACTIVE DESCRIPTION

The top note is radiant, original, green, fresh, herbal and aromatic. Fresh and spicy in the middle with a Cubeba note, the dry-down is woody (Cedarwood), aldehydic, and substantive.

PERFUMERY USAGE

CARDAMOM GUATEMALA EO brings spicy, warm and sweet notes in fine fragrances.
In perfumery, Cardamom seeds are traditionally processed into essential oil and absolute.

SOURCING

Firmenich sources Cardamom in Guatemala thanks to its Joint Venture in Central & Latin America, with Nelixia, leader of Cardamom EO and #NaturalsTogether partner.

Along Nelixia and a local NGO, Firmenich has implemented a long-term sourcing project on a responsible and traceable basis. The focus is on Cerro san Gil area, a natural reserve where deforestation is critical. The project managed to reach 100% of traceability, to increase local communities' empowerment and incomes by reorganizing the supply chain without external intermediaries and establishing a drying facility easily accessible for Q'eqchis communities.

Trees have been planted for reforestation, offering a diversification of revenues for farmers and shade for cardamom fields, which increases the crop yield.



Firmenich Main Sourcing Country
GUATEMALA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■							■	■	■

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds and pods.
Standard yield: fresh plant = 2.3-6%.
110 kg of fresh seeds (22 kg of dried seed) to produce 1 kg of Essential Oil.
This ingredient is both convenient for perfumery and flavor applications.

CASSIE ABS
920941

GREEN

FLORAL

ABSOLUTE

Acacia farnesiana



CAS NUMBER	0008023-82-3
REACH NUMBER	
FEMA NUMBER	2260

OLFACTIVE DESCRIPTION

Floral-mimosa, honey, spicy, green, violet leaf, woody.

The olfactive profile is tenacious, herbaceous, warm and floral.

PERFUMERY USAGE

At low dosage, CASSIE ABS offers a delicate, velvety floral fragrance capturing notes of mimosa and white flowers, with a powdery undertone.

SOURCING

Firmenich sources Cassie from its Egyptian #NaturalsTogether partner.

In Egypt, Cassie is used as a protective hedge tree around fields due to its thorns.

Firmenich partner cultivates Cassie around its Jasmine or Citrus fields. The flowers are delicately hand-picked and then extracted to obtain a concrete and an absolute.



● Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
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PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: twigs and flowers.
This ingredient is both convenient for perfumery and flavor applications.

CASSIE ABS TYPE NAT
920945

GREEN

FLORAL

ABSOLUTE

Acacia farnesiana



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Floral-mimosa, honey, spicy, green, violet leaf, woody.

The olfactive profile is tenacious, herbaceous, warm and floral.

PERFUMERY USAGE

At low dosage, CASSIE ABS TYPE NAT offers a delicate, velvety floral fragrance capturing notes of mimosa and white flowers, with a powdery undertone.

Type: Commercial grade.

SOURCING

Firmenich sources Cassie from its Egyptian #NaturalsTogether partner.

In Egypt, Cassie is used as a protective hedge tree around fields due to its thorns.

Firmenich partner cultivates Cassie around its Jasmine or Citrus fields. The flowers are delicately hand-picked and then extracted to obtain a concrete and an absolute.



● Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■										■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: twigs and flowers.
This ingredient is both convenient for perfumery and flavor applications.

CASTOREUM FIRBEST
942629

☐ ANIMALIC

FIRBEST

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

CASTOREUM FIRBEST offers the animalic, phenolic, warm and powerful profile of natural Castoreum.

PERFUMERY USAGE

This ingredient, as a FIRBEST, contains no trace of natural Castoreum.

• Clearer in color than traditional natural extracts, it can be used in a greater number of applications.
• The use of carrier ensures perfect solubility.

The natural animalic note is obtained using a natural mineral source with a strong and powerful animalic character.

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

In response to the regulations on natural extracts, or in response to a creative need, Firmenich has developed FIRBEST.
These specialties contain naturals but NOT the named ingredient.

CEDAR LEAF EO
921588

WOODY

AROMATIC

ESSENTIAL OIL

Thuja occidentalis



CAS NUMBER	0008007-20-3
REACH NUMBER	01-2120763401-62
FEMA NUMBER	2267

OLFACTIVE DESCRIPTION

CEDAR LEAF EO gives lift to herbal, aromatic and woody notes.

Its profile is sharp, fresh, camphoraceous, woody and green.



● Firmenich Main Sourcing Country
CANADA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■	■	■	■	

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: branches.
This ingredient is both convenient for perfumery and flavor applications.

CEDARWOOD ALASKA EO
967442

WOODY

CITRUS

ESSENTIAL OIL

Cupressus nootkatensis



CAS NUMBER 1069136-34-0

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Sparkling with a fresh and breezy grapefruit crisp, the profile is combining spicy, aromatic and linear woody hints for a long-lasting sensory experience.

An extremely powerful cedarwood note, in which grapefruit aspects bring a sparkling effect (due to its Nootkatene and Nootkatone content).
Not as camphoraceous and smoky as a cedarwood but stronger, longer-lasting and very linear.

PERFUMERY USAGE

By exploring the wild powerful impact of this multifaceted cedarwood treasure, perfumers will unlock new creative potential.

CEDARWOOD ALASKA EO is a highly differentiating product as it offers a new olfactive signature, a unique way to render an unforgettable perfumery experience in formulation.

SOURCING

Exclusively sourced from our partnership in Bristish Columbia, CEDARWOOD ALASKA EO is an innovative ingredient coming from the sustainable forest husbandry. Firmenich has the exclusivity with this partner for this type of specific oil.
Not a single tree is cut down to produce CEDARWOOD ALASKA EO as the cedar used as the raw material comes solely from sawdust produced by local wood industry.



Sourcing countries

CANADA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: twigs.

Firmenich CEDARWOOD ALASKA EO is considered as one of the most innovative natural ingredients developed and introduced since PINK PEPPER.

CEDARWOOD VIRGINIA EO
922044

WOODY

AMBERY

ESSENTIAL OIL

CAS NUMBER	0008000-27-9
REACH NUMBER	01-2120744063-63
FEMA NUMBER	

Juniperus virginiana



OLFACTIVE DESCRIPTION

Firmenich's Cedarwood Virginia oil is obtained from the wood of Juniperus Virginiana.

Woody, dry, traditionally reminiscent of woody lead pencil, slightly ambery.

SOURCING

Cedar Virginia is the trade name for Juniperus Virginiana, wild species that grow abundantly in Alabama, Missouri and Texas. It is an evergreen tree which lives more than 450 years.

The trees used for distillation are about 60 years old. The raw material is widely available and harvested with no damage to the environment.

The heartwood is amazingly fragranced and is the part used for the oil, after more than 6 hours of distillation.

Our partners in Alabama and Texas are mastering the production from logs recovery with state-of-the-art distillation, resulting in one of the most sustainable supply chain in the range of aromatic woods.



● Firmenich Main Sourcing Country
UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: wood chips (by-product).
Yield : 2.3 – 3.5%
35kg app of wood chips for 1kg EO

CEDARWOOD VIRGINIA OIL RECT
922051

WOODY

AMBERY

ESSENTIAL OIL

CAS NUMBER	0008000-27-9
REACH NUMBER	01-2120744063-63
FEMA NUMBER	

Juniperus virginiana



OLFACTIVE DESCRIPTION

Firmenich's Cedarwood Virginia oil is obtained from the wood of Juniperus virginiana.
The profile is typically woody, dry, reminiscent of a woody pencil mine, slightly ambery.
The essential oil, combined to a perfectly monitored rectification process brings to the Perfumers a unique woody profile.
The rectification process concentrates the noble woody and slightly ambery notes of Cedarwood for an unforgiving and sleek elegant inspiration.



● Firmenich Main Sourcing Country
UNITED STATES OF AMERICA

PERFUMERY USAGE

Widely used in woody composition to give a dry woody and ambery effect.
Standard dosage in Fine Fragrance application: 3 to 4%.

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

SOURCING

Cedar Virginia is the trade name for Juniperus virginiana, wild species that grow abundantly in Alabama, Missouri and Texas. It is an evergreen tree which lives more than 450 years. The trees used for distillation are about 60 years old.
The raw material is widely available and harvested with no damage to the environment. The heartwood is amazingly fragranced and is the part used for the oil, after more than 6 hours of distillation.
Our partners in Alabama and Texas are mastering the production from logs recovery with state-of-the-art distillation, resulting in one of the most sustainable supply chain in the range of aromatic woods.

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: wood chips (by-product).
Additional process: fractionated distillation.
Yield : 2.3 – 3.5%
35kg app of wood chips for 1kg EO

CELERY SEED SFE
922549

AROMATIC

SFE

Apium graveolens



CAS NUMBER	0008015-90-5
REACH NUMBER	
FEMA NUMBER	2269

OLFACTIVE DESCRIPTION

Herbal, green, anisic, fresh, aromatic, woody, spicy.

PERFUMERY USAGE

CELERY SEED is used to nuance floral accords or chypre perfumes.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country
INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried seeds.
This ingredient is both convenient for perfumery and flavor applications.

CHAMOMILE BLUE EO
919030

AROMATIC
ESSENTIAL OIL

Matricaria chamomilla



CAS NUMBER	0008002-66-2
REACH NUMBER	
FEMA NUMBER	2273

OLFACTIVE DESCRIPTION

Herbaceous, medicinal, and fruity with a subtle woody note.



- Firmenich Main Sourcing Country
  EGYPT
- Sourcing countries
  EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■							

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
125-350 Kg of flowers app. to produce 1 Kg of Essential oil.
This ingredient is both convenient for perfumery and flavor applications.

CHAMOMILE ROMAN EO
919099

AROMATIC
ESSENTIAL OIL

Anthemis nobilis



CAS NUMBER	0008015-92-7
REACH NUMBER	
FEMA NUMBER	2275

OLFACTIVE DESCRIPTION

A bright, crisp, sweet, fruity, herbaceous fresh scent with bitter top note and tea-like facet.

PERFUMERY USAGE

The Essential oil brings tea leaves nuances together with a subtle scent of the well known beverage called "chamomile" in English or "infusion" in French.



● Sourcing countries
FRANCE - ITALY - SWITZERLAND

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■					

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried flowers.
100-200 Kg of flowers app. to produce 1 Kg of Essential oil.
Standard yield: 0.2-1%.
This ingredient is both convenient for perfumery and flavor applications.

CHAMOMILE WILD EO
919080

AROMATIC
ESSENTIAL OIL

Ormenis multicaulis



CAS NUMBER	0068916-68-7
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

A camphor, sweet, fruity, herbaceous profile with cistus undertone.

PERFUMERY USAGE

CHAMOMILE WILD EO brings aromatic, dry, sweet, ambery and hay notes.

SOURCING

Ormelis multicaulis is known in Morocco as "Wild Chamomile" although it is not a Chamomile as such.

This very fragrant shrub occurs naturally along the coast north of Casablanca.

In early summer, Firmenich #NaturalsTogether partner is purchasing the plant for distillation.
Wild Chamomile is manually harvested on lands allocated by Moroccan authorities.



● Firmenich Main Sourcing Country
MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
100-200 Kg of flowers app. to produce 1 Kg of Essential oil.

CINNAMON BARK SFE
919413

SPICY

GOURMAND

SFE

Cinnamomum zeylanicum



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

CINNAMON BARK SFE offers warm, woody, spicy, sweet and gourmand notes.

More intense, warm, gourmand and addictive than classical Essential Oil.

PERFUMERY USAGE

An olfactive profile both qualitative and true to nature, dedicated to Fine Fragrance.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Firmenich Main Sourcing Country

SRI LANKA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■	■	■	■	■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried bark (also called "Cannelier").
This ingredient is both convenient for perfumery and flavor applications.

CISTUS ABS
925094

AMBERY

BALSAMIC

ABSOLUTE

CAS NUMBER	0008016-26-0
REACH NUMBER	
FEMA NUMBER	

Cistus ladaniferus



OLFACTIVE DESCRIPTION

Ambery, warm, leathery, balsamic.

The Cistus family is ambery, woody, light and fruity. Absolutes profiles offer hints of floral notes on top and deep warm, long-lasting dry-down notes.

Although Spain is the main sourcing country, Morocco is a very close alternative in terms of profile.

PERFUMERY USAGE

Cistus is a key compound in chypre, oriental and spicy notes.



● Sourcing countries

MOROCCO - SPAIN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and leaves.

CISTUS ABS TYPE NAT
925084

AMBERY

BALSAMIC

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Cistus ladaniferus



OLFACTIVE DESCRIPTION

Ambery, warm, leathery, balsamic.

The Cistus family is ambery, woody, light and fruity. Absolutes profiles offer hints of floral notes on top, and deep warm, long-lasting dry-down notes.

CISTUS ABS TYPE NAT has a rich profile combining the rising side of the essence with the ambery dry-drown of the absolute.

Although Spain is the main sourcing country, Morocco is a very close alternative in terms of profile.



Sourcing countries

MOROCCO - SPAIN

PERFUMERY USAGE

Cistus is a key compound in chypre, oriental and spicy notes.

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and leaves.

CISTUS OIL
925115

AMBERY

BALSAMIC

ESSENTIAL OIL

CAS NUMBER	0008016-26-0
REACH NUMBER	
FEMA NUMBER	

Cistus ladaniferus



OLFACTIVE DESCRIPTION

Ambery, warm, balsamic, leathery.

The Cistus family is ambery, woody, light and fruity. Essential Oils' profiles are floral on top and slightly warm in mid and dry-down.

PERFUMERY USAGE

Cistus is a key compound in chypre, oriental and spicy notes.



● Firmenich Main Sourcing Country
SPAIN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and leaves.

CLARY SAGE ABS
981593

AROMATIC
ABSOLUTE

Salvia sclarea



CAS NUMBER	0008016-63-5
REACH NUMBER	
FEMA NUMBER	2321

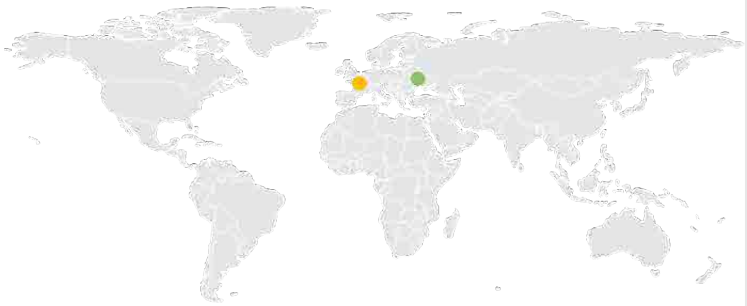
OLFACTIVE DESCRIPTION

Ambery, herbaceous, camphor, floral, musky.

The olfactive profile is both bright and earthy.
Typically aromatic, it offers a subtle fruity undertone.

PERFUMERY USAGE

Absolute and essence are both used in the composition of chypre, fougere and oriental fragrances.



- Firmenich Main Sourcing Country
  UKRAINE
- Sourcing countries
  FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.
This ingredient is both convenient for perfumery and flavor applications.

CLARY SAGE PAYS CRUSHED EO
981532

AROMATIC
ESSENTIAL OIL

Salvia sclarea



CAS NUMBER	0008016-63-5
REACH NUMBER	
FEMA NUMBER	2321

OLFACTIVE DESCRIPTION

Fresh, herbal, minty, bright and earthy.
Typically aromatic, it offers a subtle fruity undertone.
Fresher on top but less herbal and animalic than the absolute.
Stems and flowers are directly crushed ("ensillée") during the harvest and distilled in the tank (called locally "distillation en caisson") giving a typical and powerful profile to the essential oil versus traditional distillation.

PERFUMERY USAGE

Absolute and essence are both used in the composition of chypre, fougere and oriental fragrances.

SOURCING

Firmenich has developed a responsible sourcing program with its #NaturalsTogether partner in Provence (France). Provence produces 95% of the Lavandin in the world, a cultivation also associated with other aromatic ingredients: Lavender and Clary sage.
Firmenich footprint in Lavandin, one of the largest of the Industry, comes with a responsibility. Heavily involved, Firmenich support its #NaturalsTogether partner to develop a diversification program of Lavandin with Clary sage, new Lavender hybrids and introduction of Coriander, a new ingredient in Provence cultivation.
The association of aromatic products ensures a higher and more regular income for farmers.
This diversification is also key to strengthen the future of aromatic crops in Provence.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers crushed in the field during the harvest.
Direct distillation in the tank.
100-150 Kg of biomass to produce 1 Kg essential oil.
This ingredient is both convenient for perfumery and flavor applications.

CLOVE BUD SFE
946618

SPICY

SWEET

SFE

Eugenia caryophyllata



CAS NUMBER	0008000-34-8
REACH NUMBER	
FEMA NUMBER	2322

OLFACTIVE DESCRIPTION

A spicy and characteristic eugenol profile.
Refined and of premium quality.

PERFUMERY USAGE

CLOVE BUD SFE is used in floral compositions, especially in the reconstitution of carnations and caraway, or in oriental notes.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Sourcing countries
INDONESIA - MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
		■	■			■	■		■	■	

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried buds.
7 Kg of cloves app. to produce 1 Kg of Essential oil.
10 000 cloves app. harvested in 1 Kg.

COCOA DECOL PG
918805

GOURMAND

EXTRACT

Theobroma cacao



CAS NUMBER	0008002-31-1
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

A pure gourmand dark chocolate profile.

It combines a deep, woody and warm profile of pure cocoa powder with the contrasting bitter, fruity nuances and animalic dry-down note of raw cocoa beans.

PERFUMERY USAGE

Inherited from our comprehensive range developed for flavor applications, this Cocoa extract offers a new way to introduce cocoa notes in perfumery accords.

Through direct extraction on powder, the molecular distillation brings high solubility, yielding a crystal-clear and liquid product, easy to use in composition and in factories.

SOURCING

Firmenich is committed to buying UTZ (www.utz.org) certified cocoa powders under a program called Cocoa Promise.



Firmenich Main Sourcing Country
IVORY COAST

Sourcing countries
IVORY COAST

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■		■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
Add process: molecular distillation.

COFFEE COLUMBIA SFE
918748

GOURMAND

WOODY

SFE

Coffea arabica Columbia Excelso



CAS NUMBER	0008001-67-0
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Gourmand, roasted with smoke and spicy undertones.

Typical freshly ground roasted coffee beans.

PERFUMERY USAGE

Brings an intense gourmand note with smoky dimension which matches well in oriental or fruity accords. Good association with woody, ambery and vanilla notes.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Firmenich Main Sourcing Country

COLOMBIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■				

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
This ingredient is both convenient for perfumery and flavor applications.

COFFEE ESPRESSO SFE
918743

GOURMAND

WOODY

SFE

Coffea arabica & Coffea canephora



CAS NUMBER	0008001-67-0
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Gourmand, roasted, burnt, woody.

Typical Italian coffee expresso profile. The slightly burnt character exalts woody tones reminiscent of a coffee shop smell.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Sourcing countries

HONDURAS - INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■				

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
This ingredient is both convenient for perfumery and flavor applications.

COFFEE SANTOS SFE
918868

GOURMAND

WOODY

SFE

coffea arabica



CAS NUMBER	0008001-67-0
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Roasted profile, phenolic, ground coffee-like.

Coffea arabica profile is strong but not bitter; aromatic, fruity, with a rich top note and light "heart" note.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Committed to an exclusive partnership with an expert in Coffee sourcing and roasting processes, Firmenich selects the best qualities from Brazil and the most recognized origins around the world.

The Firmenich Natural Ingredients Innovation Center in Grasse, France, shares its expertise with our partner to adjust delicately the roasting parameters on the green coffee beans.



Sourcing countries

BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■				

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
This ingredient is both convenient for perfumery and flavor applications.

COFFEE SFE
918857

GOURMAND

WOODY

SFE

Coffea arabica



CAS NUMBER	0008001-67-0
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Gourmand, roasted, typical coffee.

Coffea arabica profile is strong but not bitter; aromatic, fruity, with a rich top note and light "heart" note.

Coffee beans are selected from five different arabicas. The mild roasted profile is balanced with coffee volatiles.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Firmenich Main Sourcing Country

BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■				

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
This ingredient is both convenient for perfumery and flavor applications.

CORIANDER SEED EO
928143

AROMATIC
ESSENTIAL OIL

Coriandrum sativum



CAS NUMBER	0008008-52-4
REACH NUMBER	01-2120751207-58
FEMA NUMBER	2334

OLFACTIVE DESCRIPTION

Aromatic, pungent, spicy, peppery, slightly lemon, woody. The olfactive profile is multifaceted and displays floral, spicy, herbaceous, woody, sweet and fruity notes.

PERFUMERY USAGE

Coriander seed oil is used to create the dominant note of floral and oriental fragrances. Rich in linalol, CORIANDER SEED EO is a good substitute to rosewood.

SOURCING

Firmenich has developed a responsible sourcing program with its #NaturalsTogether partner in Provence (France). Provence produces 95% of the Lavandin in the world, a cultivation also associated with other aromatic ingredients: Lavender and Clary sage.

Firmenich footprint in Lavandin, one of the largest of the Industry, comes with a responsibility.
Heavily involved, Firmenich support its #NaturalsTogether partner to develop a diversification program of Lavandin with Clary sage, new Lavender hybrids and introduction of Coriander, a new ingredient in Provence cultivation.

The association of aromatic products ensures a higher and more regular income for farmers. This diversification is also key to strengthen the future of aromatic crops in Provence.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds.
Standard yield: 1.3-2%.

CYPRIOL EO HEART
937415

WOODY

LEATHERY

ESSENTIAL OIL

Cyperus scariosus



CAS NUMBER	0068916-60-9
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Thanks to its long-lastingness, many facets are unveiled.

This very precise profile supports Patchouli in most masculine perfumes.

A distinctive woody-dried, earthy and animalic profile.

PERFUMERY USAGE

With a high level of cyperene and copahene, this colorless ingredient is perfectly adapted to traditional compositions like re-inventing the most crystal-clear and modern Chypre.

The Molecular Distillation applied to the traditional Essential Oil offers the finest and most elegant profile of Cypriol for Fine Fragrance creations.



● Sourcing countries

INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■								

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: roots.
Additional process: Molecular distillation.

ELDERFLOWER ABS
984310

FLORAL

FRUITY

ABSOLUTE

Sambucus nigra



CAS NUMBER	0068916-55-2
REACH NUMBER	
FEMA NUMBER	2406

OLFACTIVE DESCRIPTION

Elderflower has sweet, hay, dry fruit and tobacco-like odor.

The profile is floral, generous and warm, with fruity, honey-like undertones.

PERFUMERY USAGE

In Fine Fragrance, ELDERFLOWER ABS can enhance the herbal and sweet facets in aromatic and oriental accords.



Sourcing countries

BULGARIA - POLAND

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■						

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
This ingredient is both convenient for perfumery and flavor applications.

ELEMI EO
939853

SPICY
ESSENTIAL OIL

Canarium luzonicum



CAS NUMBER	0008023-89-0
REACH NUMBER	01-2120735788-38
FEMA NUMBER	2408

OLFACTIVE DESCRIPTION

Spicy, peppery, lemony.

The fresh top note has a green facet while the bottom note evokes Olibanum and Pink Pepper.

PERFUMERY USAGE

ELEMI EO is used to add a fresh note to woody, spicy and zesty perfumes, mainly in masculine fragrances.

SOURCING

Firmenich is the largest buyer of Elemi gum, purchasing it from the Philippines for more than 3 decades, which implies a special responsibility for this ingredient.

This responsibility and Firmenich commitment to responsible sourcing has been a motivation to deepen the understanding and engagement in the value chain and to identify key intervention opportunities to create a sustainable value chain.

With the two best local producers, Firmenich is developing a project at source in Quezon Province. Objectives are to have a fully traceable supply chain, guarantee the access to the raw materials, and promote more sustainable practices in the area of gum extraction and forest management.



● Firmenich Main Sourcing Country
PHILIPPINES

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■				■	■	■	■	■

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
5,5 kg of Elemi gum to produce 1 Kg of essential oil.
Small incisions in the trunk trees exude a fragrant white fluid from the opening known as Elemi gum.
Tapping is done once a day during one week before collecting the gum.

ELEMI RES
939866

SPICY

RESINOID

Canarium luzonicum



CAS NUMBER	0008023-89-0
REACH NUMBER	01-2120765218-49
FEMA NUMBER	2408

OLFACTIVE DESCRIPTION

Spicy, peppery, lemony.

The fresh top note has a green facet while the bottom note evokes Olibanum and Pink pepper.

This process brings balsamic notes.

PERFUMERY USAGE

ELEMI RES is used to add a fresh note to woody, spicy and zesty perfumes, mainly in masculine fragrances.

SOURCING

Firmenich is the largest buyer of Elemi gum, purchasing it from the Philippines for more than 3 decades, which implies a special responsibility for this ingredient.

This responsibility and Firmenich commitment to responsible sourcing has been a motivation to deepen the understanding and engagement in the value chain and to identify key intervention opportunities to create a sustainable value chain.

With the two best local producers, Firmenich is developing a project at source in Quezon Province. Objectives are to have a fully traceable supply chain, guarantee the access to the raw materials, and promote more sustainable practices in the area of gum extraction and forest management.



Firmenich Main Sourcing Country

PHILIPPINES

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■				■	■	■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
Small incisions in the trunk trees exude a fragrant white fluid from the opening known as Elemi gum.
Tapping is done once a day during one week on the same bark incision before collecting the gum.

ELEMI SFE
939865

SPICY

SFE

Canarium luzonicum



CAS NUMBER	0008023-89-0
REACH NUMBER	
FEMA NUMBER	2408

OLFACTIVE DESCRIPTION

Spicy, peppery, lemony.
The fresh top note has a green facet while the bottom note evokes Frankincense and Pink peppercorn.
SFE process offers a cleaner profile, more vertical than the essential oil, with long-lastingness.

PERFUMERY USAGE

ELEMI SFE is used to add a fresh note to woody, spicy and zesty perfumes, mainly in masculine fragrances.
The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Firmenich is the largest buyer of Elemi gum, purchasing it from the Philippines for more than 3 decades, which implies a special responsibility for this ingredient.

This responsibility and Firmenich commitment to responsible sourcing has been a motivation to deepen the understanding and engagement in the value chain and to identify key intervention opportunities to create a sustainable value chain.

With the two best local producers, Firmenich is developing a project at source in Quezon Province. Objectives are to have a fully traceable supply chain, guarantee the access to the raw materials, and promote more sustainable practices in the area of gum extraction and forest management.



Firmenich Main Sourcing Country
PHILIPPINES

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■				■	■	■	■	■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
Small incisions in the trunk trees exude a fragrant white fluid from the opening known as Elemi gum.
Tapping is done once a day during one week on the same bark incision before collecting the gum.

EVERLASTING ABS
941302

AROMATIC

ABSOLUTE

Helichrysum angustifolium



CAS NUMBER	0008023-95-8
REACH NUMBER	
FEMA NUMBER	2592

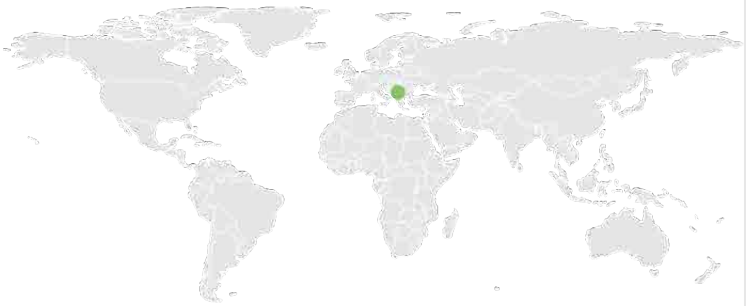
OLFACTIVE DESCRIPTION

Everlasting is a multi-faceted ingredient and can be described as an aromatic in a gourmand universe.

Perfumers qualify it as a floral-ambery or a floral-gourmand, always warm.

PERFUMERY USAGE

In Fine Fragrance, it is mainly used to give a deep tobacco effect to chypre and oriental perfumes.



● Firmenich Main Sourcing Country
MACEDONIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■				

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: twigs.
This ingredient is both convenient for perfumery and flavor applications.

EVODIA EO
941806

FRUITY

GREEN

ESSENTIAL OIL

Evodia rutaecarpa



CAS NUMBER	1137739-11-7
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

The sharp greenness on top is reminiscent of hot chilies or pimento.

Evodia has natural papaya and mango aspects, green mandarin and herbal notes as well as an aromatic aspect which brings brightness in lavender compositions.

A powerful, fruity, green, aromatic ingredient, very intense, recalling Tagete, Petitgrain and Green fruits.



Firmenich Main Sourcing Country

CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PERFUMERY USAGE

EVODIA EO can provide a Tagete effect.

Standard dosage:
- 0.05% (Home Care - Candle).
- 0.1% (Body Care - Shampoo).
- up to 0.2% (Fine Fragrance).

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruits.

FENUGREEK INDIA ABS
942402

AROMATIC

GOURMAND

ABSOLUTE

CAS NUMBER	0068990-15-8
REACH NUMBER	
FEMA NUMBER	2485

Trigonella foenum graecum



OLFACTIVE DESCRIPTION

The olfactive profile is sweet, spicy, balsam-like, with slight celery notes and anisic facet.

PERFUMERY USAGE

FENUGREEK INDIA ABS can be used to boost the spicy and gourmand anisic notes.



● Firmenich Main Sourcing Country
INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds.
This ingredient is both convenient for perfumery and flavor applications.

FENUGREEK RES
942403

AROMATIC

GOURMAND

RESINOID

CAS NUMBER	0068990-15-8
REACH NUMBER	
FEMA NUMBER	2486

Trigonella foenum graecum



OLFACTIVE DESCRIPTION

The olfactive profile is sweet, spicy, balsam-like, with slight celery notes and nutty facet.

PERFUMERY USAGE

FENUGREEK RES can be used to boost the spicy and gourmand anisic notes.



● Firmenich Main Sourcing Country
INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			●								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds.
This ingredient is both convenient for perfumery and flavor applications.

FIR ABS TYPE NAT
220440

☐ WOODY

ABSOLUTE

Pinus sylvestris & Picea abies



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, balsamic, resinous and green notes.

PERFUMERY USAGE

It is used in Fine Fragrance, Body and Home Care, in fresh balsamic and aromatic accords.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: branches.

GALBANUM EO RECT
944375

GREEN

WOODY

ESSENTIAL OIL

CAS NUMBER	0008023-91-4
REACH NUMBER	01-2120735440-64
FEMA NUMBER	2501

Ferula galbaniflua



OLFACTIVE DESCRIPTION

Green, fresh, garlicky, powerful.

Galbanum is well known for its very intense green scent accompanied by a turpentine and resinous odor.

The initial notes are bitter, followed by complex green, spicy, woody, balsam-like notes.



● Firmenich Main Sourcing Country
IRAN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PERFUMERY USAGE

Incorporated into any composition, galbanum boosts fragrance properties.

It thus enters into the composition of many perfumes because of its power to fix odor and enhance long-lastingness.

SOURCING

Galbanum is an aromatic gum resin made from wild picked flowers in the mountains of Northern Iran, yet Firmenich sources galbanum gums in Europe directly.

Each lot is carefully selected to enable perfect quality. The gums are processed in our manufacture in Grasse.

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
Standard yield: 18-24%.
This ingredient is both convenient for perfumery and flavor applications.

GALBANUM PURIF EXT
944451

GREEN

WOODY

RESINOID

CAS NUMBER	0008023-91-4
REACH NUMBER	
FEMA NUMBER	2501

Ferula galbaniflua



OLFACTIVE DESCRIPTION

Green, metallic, fresh, earthy, balsamic.

Galbanum is well-known for its very intense green scent accompanied by a turpentine and resinous odor.

The initial notes are bitter, followed by complex green, spicy, woody, balsam-like notes.



● Firmenich Main Sourcing Country
IRAN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PERFUMERY USAGE

Incorporated into any composition, galbanum boosts fragrance properties.

It thus enters into the composition of many perfumes because of its power to fix odor and enhance long-lastingness.

SOURCING

Galbanum is an aromatic gum resin made from wild picked flowers in the mountains of Northern Iran, yet Firmenich sources galbanum gums in Europe directly.

Each lot is carefully selected to enable perfect quality. The gums are processed in our manufacture in Grasse.

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part of the plant: gums.
This ingredient is both convenient for perfumery and flavor applications.

GALBANUM RES
944453

GREEN

WOODY

RESINOID

CAS NUMBER	0008023-91-4
REACH NUMBER	01-2120747563-50
FEMA NUMBER	2502

Ferula galbaniflua



OLFACTIVE DESCRIPTION

Green, metallic, fresh, earthy, balsamic.
This profile is very balsamic and resinous.

Galbanum is well-known for its very intense green scent accompanied by a turpentine and resinous odor.

The initial notes are bitter, followed by complex green, spicy, woody, balsam-like notes.

PERFUMERY USAGE

Incorporated into any composition, galbanum boosts fragrance properties.

It thus enters into the composition of many perfumes because of its power to fix odor and enhance long-lastingness.

SOURCING

Galbanum is an aromatic gum resin made from wild picked flowers in the mountains of Northern Iran, yet Firmenich sources galbanum gums in Europe directly.

Each lot is carefully selected to enable perfect quality. The gums are processed in our manufacture in Grasse.



● Firmenich Main Sourcing Country
IRAN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

GALBANUM SFE
944459

GREEN

WOODY

SFE

Ferula galbaniflua



CAS NUMBER	0008023-91-4
REACH NUMBER	
FEMA NUMBER	2501

OLFACTIVE DESCRIPTION

Green, fresh, garlic powerful.

Galbanum offers a very intense green scent accompanied by a turpentine and resinous odor.
The initial notes are bitter, followed by complex green, spicy, woody, balsam-like notes.

Firmenich's process enhances the Undecatriènes and the green, floral, fruity note of Galbanum rather than the turpentine note.

PERFUMERY USAGE

Incorporated into any composition, galbanum boosts fragrance properties. It thus enters into the composition of many perfumes because of its power to fix odor and enhance long-lastingness.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Galbanum is an aromatic gum resin made from wilded picked flowers in the mountains of Northern Iran, yet Firmenich sources galbanum gums in Europe directly.

Each lot is carefully selected to enable perfect quality, the gums are processed in our manufacture in Grasse.



● Firmenich Main Sourcing Country
IRAN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

GERANIUM ABS TYPE
220533

FLORAL

AROMATIC

ABSOLUTE

Pelargonium graveolens



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Floral, fresh, sweet, with a characteristic fruity and rose note.

The profile is green with subtle minty note.

PERFUMERY USAGE

It is widely used, particularly in the composition of men's perfume. Most often found in fougere and rose notes.

SOURCING

Native to South Africa, Geranium also grows in the Reunion Island, Spain, Italy, Morocco, Egypt and China.

Egypt is one of the two main sources of Geranium extracts, the other being China. In Egypt, Geranium is grown in a small farming traditional way.

Firmenich purchases geranium concrete from its local #NaturalsTogether partner, who cultivate geranium on its own lands and also purchases a part from the region of Beni-Souef, south of the Nile delta, the main producing area in Egypt for geranium.



Firmenich Main Sourcing Country
EGYPT

Sourcing countries
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
		■	■	■	■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.

GERANIUM EGYPT EO
945686

FLORAL

AROMATIC

ESSENTIAL OIL

CAS NUMBER	0008000-46-2
REACH NUMBER	01-2120769423-50
FEMA NUMBER	2508

Pelargonium graveolens



OLFACTIVE DESCRIPTION

Floral, fresh, sweet, with a characteristic fruity and rose note.

The olfactive profile of the essential oil varies according to the origin and variety of the Geranium.
This profile is green with a subtle minty note.

PERFUMERY USAGE

It is widely used, particularly in the composition of men's perfume. Most often found in fougere and rose notes.



Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This ingredient is both convenient for perfumery and flavor applications.

GINGER CLEAR SFE
946422

SPICY

SFE

Zingiber officinale



CAS NUMBER	0008007-08-7
REACH NUMBER	
FEMA NUMBER	2521

OLFACTIVE DESCRIPTION

GINGER CLEAR SFE displays spicy, peppery and fresh notes with a noble, lemon-like effect.

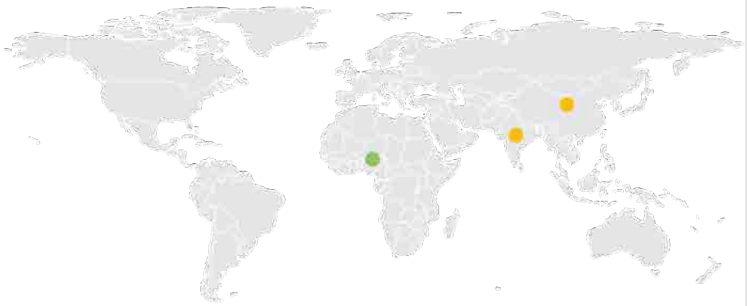
The SFE process applied to this raw material offers a clean and pure profile.

The Molecular distillation gives an even more cleaner profile (compared to the straight SFE extract).

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

The Molecular Distillation applied on the SFE extract yields a colorless extract and enhances the fresh and long-lasting spicy notes.



● Firmenich Main Sourcing Country
NIGERIA

● Sourcing countries
CHINA - INDIA - NIGERIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■									■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Additionnal process: Molecular distillation.

GINGER SFE
946417

SPICY

SFE

Zingiber officinale



CAS NUMBER	0008007-08-7
REACH NUMBER	
FEMA NUMBER	2521

OLFACTIVE DESCRIPTION

GINGER SFE displays spicy, peppery and fresh notes with a noble, lemon-like effect.

The blend of origins offers a good balance between all the descriptors.

The SFE process applied to this raw material offers a clean and pure profile.
The fresh and long-lasting spicy notes are enhanced.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Sourcing countries

INDIA - INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■									■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
This ingredient is both convenient for perfumery and flavor applications.

GRAPEFRUIT OIL 5X
946979

CITRUS

CITRUS DISTILLATION

Citrus paradisi



CAS NUMBER	0008016-20-4
REACH NUMBER	01-2120119763-56
FEMA NUMBER	2530

OLFACTIVE DESCRIPTION

Peely, fatty, woody.

PERFUMERY USAGE

.



Sourcing countries

MEXICO - SOUTH AFRICA - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■					■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

GRAPEFRUIT TERPENES
985950

CITRUS

CITRUS DISTILLATION

Citrus paradisi



CAS NUMBER	0008016-20-4
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Fresh, juicy, sweet.

PERFUMERY USAGE

Citrus terpenes give freshness to any composition.



Sourcing countries

MEXICO - SOUTH AFRICA - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■					■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

GREEN MANDARINE CITRONOVA® FAB
926528

CITRUS
CITRONOVA®

Citrus reticulata



CAS NUMBER	0008008-31-9
REACH NUMBER	
FEMA NUMBER	2657

OLFACTIVE DESCRIPTION

Juicy, green, aldehydic.

PERFUMERY USAGE

.

SOURCING

In Brazil, Firmenich is partnering with its member of #NaturalsTogether, to provide sustainable sourcing of Sfuma Mandarin exclusively to Firmenich perfumers and customers.

Firmenich donated seedlings of native species to be planted on riverbanks so farmers can be fully compliant with Brazilian environmental regulations mandating waterfront reforestation.

New Cai Mandarin trees have also been planted for future production. In addition, with two Brazilian Public Institutions, Firmenich designed focused trainings on technical and financial subjects and financed the trainings.

Through this project, Firmenich and its partners want to engage the next generation to stay in farming, making it more profitable and inclusive.



● Firmenich Main Sourcing Country
BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■	■							

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

GREEN MANDARINE TERPENES
986156

CITRUS

CITRUS DISTILLATION

Citrus reticulata



CAS NUMBER	0068953-04-8
REACH NUMBER	01-2120074120-72
FEMA NUMBER	2657

OLFACTIVE DESCRIPTION

Fresh, juicy, sweet.

PERFUMERY USAGE

Citrus terpenes give freshness to any composition.

SOURCING

In Brazil, Firmenich is partnering with its member of #NaturalsTogether, to provide sustainable sourcing of Sfuma Mandarin exclusively to Firmenich perfumers and customers.

Firmenich donated seedlings of native species to be planted on riverbanks so farmers can be fully compliant with Brazilian environmental regulations mandating waterfront reforestation.

New Cai Mandarin trees have also been planted for future production. In addition, with two Brazilian Public Institutions, Firmenich designed focused trainings on technical and financial subjects and financed the trainings.

Through this project, Firmenich and its partners want to engage the next generation to stay in farming, making it more profitable and inclusive.



● Firmenich Main Sourcing Country
BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■	■							

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

HAY PAYS ABS
943208

BALSAMIC

AROMATIC

ABSOLUTE

Hierochloe alpina



CAS NUMBER	0008031-00-3
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Hay has a soft, sweet herbal, woody scent reminiscent of Tobacco and Moss.

PERFUMERY USAGE

HAY PAYS ABS is used in fern, aromatic and lavender fragrances.



Firmenich Main Sourcing Country

FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: herbs.

HONEY PROVENCE FIRABS
942539

GOURMAND

FIRABS



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Incredibly gourmand, it imparts a natural and contemporary touch to Fine Fragrance.

HONEY PROVENCE FIRABS has a flavor-like profile: typically yummy, without animalic notes.

PERFUMERY USAGE

The Natural part of the Ingredient is Cera alba.

The process is a Co-Extraction of natural and synthetic ingredients. FIRABS helps impart the natural feeling and evaporation profile to the formula.

SOURCING

Firmenich is among the last actors to source Honeycombs from local beekeepers in the South of France (Var, Drôme, Hautes-Alpes, Alpes Maritimes and Vaucluse) whose quality is fully traceable.

Honeycombs are collected from beehives directly from a community of French beekeepers, before and after the honey harvest season.

Extraction is performed at the Firmenich factory of Tourettes (South of France). After extraction, the remaining beeswax is sold to create candles or for cosmetics use. Firmenich's sourcing agreements with suppliers guarantee a premium quality as the purchased honeycombs are untreated, with no naphthalene.



Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

FIRABS is a range of specialties which contain the natural named ingredient.
Extracted part: beeswax and honeycomb still containing traces of honey.

HYRACEUM ABS DIPG
948820

ANIMALIC

WOODY

ABSOLUTE

Procavia capensis



CAS NUMBER	1005328-84-6
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Strongly animalic, the profile is deeply complex and combines various facets of Musk, Castoreum, Civet, Tobacco and Agarwood.

PERFUMERY USAGE

HYRACEUM ABS DIPG is considered a good substitute for animalic extracts.

It is used in Oud reconstitutions.



● Firmenich Main Sourcing Country
SOUTH AFRICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

JASMINE ABS FLV
952147

FLORAL

WHITE FLOWER

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Jasminum grandiflorum



OLFACTIVE DESCRIPTION

Floral, voluptuous, sweet and slightly animalic.
With elegantly curved leaves and petals of delicate white porcelain, the fragility of this flower contrasts with the astonishing power of its scent.

PERFUMERY USAGE

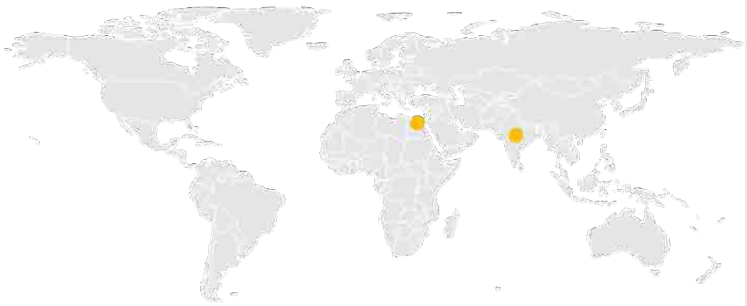
Also known as "The Flower," Jasmine enhances floral top and middle notes and helps give a complex and refined structure to perfumes.

SOURCING

This Jasmine extract is a blend of two famous origins: Egypt and India.

In India, Firmenich has a unique collaboration through its Joint-Venture with Jasmine Concrete Export Private Limited (JCEPL), leader of Indian floral extract & member of #NaturalsTogether. They have developed a direct sourcing from 1000 Jasmine grandiflorum farmers in Tamil Nadu through long term contracts, advanced payments, provision of seedlings and technical assistance.

With a dedicated local sourcing team In Egypt, Firmenich #NaturalsTogether partner relies on its own plantation for flowers production. All Jasmine fields are located in the Nile delta where exceptionally rich soils allow record flower yields in the fields. Jasmine is also grown by hundreds of small farmers bringing an important income in the overall variety of their crops.



Sourcing countries

EGYPT - INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
10 000 flowers app. harvested in 1 Kg.
6 000 000 flowers app. to produce 1 Kg of absolute.
660 Kg of flowers are necessary to obtain 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

JASMINE ABS TYPE
220561

FLORAL

WHITE FLOWER

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Jasminum grandiflorum



OLFACTIVE DESCRIPTION

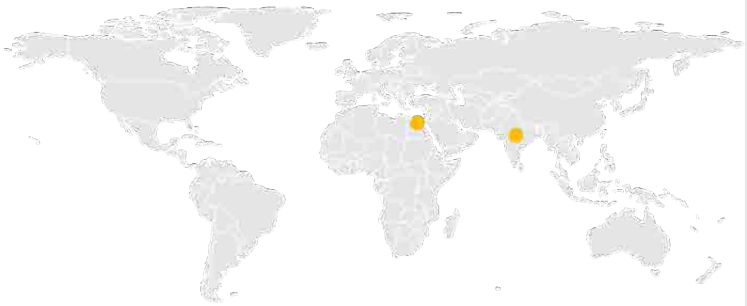
Floral, sweet and slightly animalic.
JASMINE ABS TYPE also displays a fruity, banana effect.
With elegantly curved leaves and petals of delicate white porcelain, the fragility of this flower contrasts with the astonishing power of its scent.

PERFUMERY USAGE

This cost effective specialty will bring naturality and elegant Jasmine hints in formulae.
Also known as "The Flower," Jasmine enhances floral top and middle notes and helps give a complex and refined structure to perfumes

SOURCING

This Jasmine extract is a blend of two famous origins: Egypt and India. In India, Firmenich has a unique collaboration through its Joint-Venture with Jasmine Concrete Export Private Limited (JCEPL), leader of Indian floral extract & member of #NaturalsTogether. They have developed a direct sourcing from 1000 Jasmine grandiflorum farmers in Tamil Nadu through long term contracts, advanced payments, provision of seedlings and technical assistance. With a dedicated local sourcing team In Egypt, Firmenich #NaturalsTogether partner relies on its own plantation for flowers production. All Jasmine fields are located in the Nile delta where exceptionally rich soils allow record flower yields in the fields. Jasmine is also grown by hundreds of small farmers bringing an important income in the overall variety of their crops.



Sourcing countries
EGYPT - INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
10 000 flowers app. harvested in 1 Kg.
5 000 flowers app. harvested per hour per person.
6 000 000 flowers app. to produce 1 Kg of absolute.
660 Kg of flowers are necessary to obtain 1 Kg of absolute.

JASMINE AUTUMN ABS
952145

FLORAL

WHITE FLOWER

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Jasminum grandiflorum



OLFACTIVE DESCRIPTION

Reminiscent of the historical well known perfumery ingredient "Jasmin benzol". JASMINE AUTUMN ABS offers a typical warm, gourmand, dry-fruit and hay-like effect. With elegantly curved leaves and petals of delicate white porcelain, the fragility of this flower contrasts with the astonishing power of its scent.

PERFUMERY USAGE

Also known as "The Flower," Jasmine enhances floral top and middle notes and helps give a complex and refined structure to perfumes. This highly differentiating ingredient gives to perfumers an additional creative key for "strawberry, jamy" effect to the finest compositions.

SOURCING

Originally from India, Jasmine grandiflorum was the star of Grasse and then returned to its original birthplace in the 70's. Today, Egypt is the world leader of Jasmine (grandiflorum) extracts products, with India being very close. In Egypt, Firmenich #NaturalsTogether partner relies on its own plantation for flowers production. All Jasmine fields are located in the Nile delta where exceptionally rich soils allow record flower yields in the fields. Jasmine is also grown by hundreds of small farmers bringing an important income in the overall variety of their crops. Firmenich #NaturalsTogether partner has implemented a social politic very elaborate and perfectly adapted to the country tradition, including the awarding of scholarships for the most deserving children of the Jasmine farmers families.



Firmenich Main Sourcing Country

EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■		

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
660 Kg of flowers are necessary to obtain 1 Kg of absolute.
The olfactive profile differentiation comes from the Solvent Extraction.
This ingredient is both convenient for perfumery and flavor applications.

JASMINE EGYPT ABS
952155

FLORAL

WHITE FLOWER

ABSOLUTE

Jasminum grandiflorum



CAS NUMBER	0008022-96-6
REACH NUMBER	
FEMA NUMBER	2598

OLFACTIVE DESCRIPTION

Floral, sweet, fruity, animalic.
With elegantly curved leaves and petals of delicate white porcelain, the fragility of this flower contrasts with the astonishing power of its scent.

PERFUMERY USAGE

Also known as "The Flower," Jasmine enhances floral top and middle notes and helps give a complex and refined structure to perfumes.

SOURCING

Originally from India, Jasmine grandiflorum was the star of Grasse and then returned to its original birthplace in the 70's. Today, Egypt is the world leader of Jasmine (grandiflorum) extracts products, India being very close.

In Egypt, Firmenich #NaturalsTogether partner relies on its own plantation for flowers production. All Jasmine fields are located in the Nile delta where exceptionally rich soils allow record flower yields in the fields. Jasmine is also grown by hundreds of small farmers bringing an important income in the overall variety of their crops.

Firmenich #NaturalsTogether partner has implemented a social politic very elaborate and perfectly adapted to the country tradition, including the awarding of scholarships for the most deserving children of the Jasmine farmers families.



Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■		

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
10 000 flowers app. harvested in 1 Kg.
6 000 000 flowers app. to produce 1 Kg of absolute.
660 Kg of flowers to obtain 1 Kg absolute.
This ingredient is both convenient for perfumery and flavor applications.

JASMINE EGYPT SFE
952657

FLORAL

WHITE FLOWER

SFE

Jasminum grandiflorum



CAS NUMBER	0008022-96-6
REACH NUMBER	
FEMA NUMBER	2598

OLFACTIVE DESCRIPTION

Floral, fruity, animalic.
With elegantly curved leaves and petals of delicate white porcelain, the fragility of this flower contrasts with the astonishing power of its scent.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Originally from India, Jasmine grandiflorum was the star of Grasse and then returned to its original birthplace in the 70's. Today, Egypt is the world leader of Jasmine (grandiflorum) extracts products, India being very close.

In Egypt, Firmenich #NaturalsTogether partner relies on its own plantation for flowers production. All Jasmine fields are located in the Nile delta where exceptionally rich soils allow record flower yields in the fields.
Jasmine is also grown by hundreds of small farmers bringing an important income in the overall variety of their crops.

Firmenich #NaturalsTogether partner has implemented a social politic very elaborate and perfectly adapted to the country tradition, including the awarding of scholarships for the most deserving children of the Jasmine farmers families.



● Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■		

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
10 000 flowers app. harvested in 1 Kg.
6 000 000 flowers app. to produce 1 Kg of absolute.
660 Kg of flowers to obtain 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

JASMINE SAMBAC ABS
952605

FLORAL

WHITE FLOWER

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Jasminum sambac



OLFACTIVE DESCRIPTION

Floral, green, orange flower like, animalic.
Methyl anthranylate provides an orange flower like effect on top, associated with a green and less indolic note than grandiflorum. JASMINE SAMBAS ABS offers an intensely floral, warm, rich and highly diffusive note.
This exceptional sambac profile is shining with fruity and green nuances, which is the particularity of Indian origin. In addition, the animalic facets brings sensuality.

PERFUMERY USAGE

It is widely used in orange flower and pittosporum accords. Jasmine sambac profile is much less indolic than Jasmine grandiflorum.

SOURCING

Jasmine sambac is the most important flower for religious ceremony in India, its use in perfumery came later.
In India, Jasmine Concrete EPL, Firmenich Joint Venture and #NaturalsTogether partner, is sourcing Jasmine sambac from the flower markets in Tamil Nadu, South of India. They have created close relations with collector agents. This strategy is perfectly integrated into local traditions: sourcing mainly focuses on flowers remaining after the morning trade for garland flowers, which allows flowers not to be wasted and kept at reasonable price level. After being purchased at the flower market, the buds are brought to the factories and scattered on the floor until they bloom before extraction.



Sourcing countries

CHINA - INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
		■	■	■	■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
China: 900 Kg of fresh flowers to produce 1 Kg of absolute.
India: 1 000 Kg of fresh flowers to produce 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

JASMINE SAMBAC CHINA ABS
952154

FLORAL

WHITE FLOWER

ABSOLUTE

Jasminum sambac



CAS NUMBER	1034798-23-6
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Floral, green, animalic.

Chinese origin is sweeter, more fruity, but less green and orange flower. Methyl anthranylate provides an orange flower like effect on top, associated with a green and less indolic note than grandiflorum.

PERFUMERY USAGE

It is widely used in orange flower and pittosporum accords.

Sometimes called "the real Jasmine" and considered as the genuine Jasmine flower in a large number of Asian countries, Jasminum sambac is rich in benzyl alcohol, linalol, cis-3-hexenyl benzoate, and methyl anthranylate.

In India the majority of flowers is used for religious & decorative ornaments, while in China, it is mainly dedicated to tea: only 1% of the harvest is used for the Fragrance industry.

SOURCING

Jasmine Sambac comes from Hengxian area in Guangxi Province. Firmenich is mainly buying Chinese Sambac concrete and absolute from this area.
During the harvest season, the flowers are hand-picked each morning as buds and sold the same day in market flowers or directly brought to the factories for extraction.
Hengxian has a key flower market acting as an exchange place for Jasmine Sambac.



● Firmenich Main Sourcing Country
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
4 000 000 fresh flowers app. to produce 1 Kg of absolute.
900 Kg of fresh flowers to obtain 1 Kg of absolute.

JASMINE SAMBAC FIRABS
942609

- [ ] FLORAL
- [ ] WHITE FLOWER

FIRABS

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

Methyl anthranylate provides an orange flower like effect on top, associated with a green and less indolic note than grandiflorum. Light and very distinctive of orange blossom, its "petal" like effect recalls more than ever the flowers from Tamil Nadu in India.

PERFUMERY USAGE

Widely used in orange flower and pittosporum accords, Jasmine sambac profile is much less indolic than Jasmine grandiflorum.
The Natural part of the Ingredient is a Jasmine sambac concrete. The process is a Co-Extraction of natural and synthetic ingredients.

SOURCING

Jasmine sambac is the most important flower for religious ceremony in India, its use in perfumery came later.
In India, Jasmine Concrete EPL, Firmenich Joint Venture and #NaturalsTogether partner, is sourcing Jasmine sambac from the flower markets in Tamil Nadu, South of India. They have created close relations with collector agents. This strategy is perfectly integrated into local traditions: sourcing mainly focuses on flowers remaining after the morning trade for garland flowers, which allows flowers not to be wasted and kept at reasonable price level. After being purchased at the flower market, the buds are brought to the factories and scattered on the floor until they bloom before extraction.



● Firmenich Main Sourcing Country
INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
		■	■	■	■	■	■	■	■		

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

FIRABS is a range of specialties which contain the natural named ingredient.
Extracted part: flowers.
More than 4 500 000 fresh flowers to produce 1 Kg of absolute.
1 000 Kg of fresh flowers to obtain 1 Kg of absolute.

LABDANUM ABS
953418

AMBERY

BALSAMIC

ABSOLUTE

CAS NUMBER	0008016-26-0
REACH NUMBER	01-2120747804-48
FEMA NUMBER	2610

Cistus ladaniferus



OLFACTIVE DESCRIPTION

The Cistus family is ambery, woody, light and fruity.

Labdanum profiles are balsamic, ambery, leathery, sweet. Usually more intense, longer-lasting, with leathery dry-down and animalic notes.

Absolutes profiles offer hints of floral notes on top, and deep warm, long-lasting dry-down notes.

PERFUMERY USAGE

LABDANUM ABS gives an ambery, warm and leathery effect.

Very long-lasting, it is a key compound for chypre accord.



● Firmenich Main Sourcing Country
SPAIN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

LABDANUM EXT TEC
953424

AMBERY

BALSAMIC

EXTRACT

CAS NUMBER	0008016-26-0
REACH NUMBER	
FEMA NUMBER	2610

Cistus ladaniferus



OLFACTIVE DESCRIPTION

The Cistus family is ambery, woody, light and fruity.

Labdanum profiles are balsamic, ambery, leathery, sweet. Usually more intense, longer-lasting, with leathery dry-down and animalic notes.

Absolutes profiles offer hints of floral notes on top, and deep warm, long-lasting dry-down notes.

PERFUMERY USAGE

This family of extraction with TEC is really easy to use in any kind of applications and cost effective.

SOURCING

Cistus collection is regulated by a permit system in Spain.



● Firmenich Main Sourcing Country
SPAIN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

LABDANUM RES
953642

AMBERY

BALSAMIC

RESINOID

CAS NUMBER	0008016-26-0
REACH NUMBER	01-2120747805-46
FEMA NUMBER	2610

Cistus ladaniferus



OLFACTIVE DESCRIPTION

The Cistus family is ambery, woody, light and fruity.

Labdanum profiles are balsamic, ambery, leathery, sweet. Usually more intense, longer-lasting, with leathery dry-down and animalic notes.

Absolutes profiles offer hints of floral notes on top, and deep warm, long-lasting dry-down notes.



Firmenich Main Sourcing Country

SPAIN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PERFUMERY USAGE

LABDANUM RES gives an ambery, warm and leathery effect.

Very long-lasting, it is a key compound for chypre accord.

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

LAVANDIN ABS
954241

AROMATIC
ABSOLUTE

Lavandula hybrida



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Lavandin has fresh, aromatic, sweet and floral notes. It is more herbaceous and camphor-like than Lavender. Compared to LAVANDIN GROSSO EO, the absolute is warmer, more herbaceous and coumarinic (hay like).

PERFUMERY USAGE

LAVANDIN ABS is widely used in Body and Home Care applications. It blends well with Labdanum, Oakmoss, Vetiver, Patchouli, Pine needle, Coumarin, Clary sage, chypres and fougeres.

SOURCING

In Provence, France, Firmenich has developed a responsible sourcing program of local ingredients with its #NaturalsTogether partner.

Provence produces 95% of the Lavandin in the world, a production that is traditionally associated with other aromatic ingredients: Lavender and Clary sage.
Firmenich footprint in Lavandin, one of the largest of the Industry, comes with a responsibility. Heavily involved, Firmenich support its #NaturalsTogether partner to develop a diversification program of Lavandin with Clary Sage, new Lavender hybrids and the introduction of Coriander, a new ingredient in Provence cultivation.
The association of aromatic products ensures a higher and more regular income for farmers.
This diversification is also key to strengthen the future of aromatic crops in Provence.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.

LAVANDIN ABS DECOL
954256

AROMATIC

ABSOLUTE

Lavandula hybrida



CAS NUMBER	0008022-15-9
REACH NUMBER	
FEMA NUMBER	2618

OLFACTIVE DESCRIPTION

Lavandin has fresh, aromatic, sweet and floral notes. It is more herbaceous and camphor-like than Lavender.

Compared to LAVANDIN GROSSO EO, the absolute is warmer, more herbaceous and coumarinic (hay like).

PERFUMERY USAGE

LAVANDIN ABS DECOL is widely used in Body and Home Care applications.

It blends well with Labdanum, Oakmoss, Vetiver, Patchouli, Pine needle, Coumarin, Clary sage, chypres and fougeres.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.

LAVANDIN ABS GREEN TYPE
220593

AROMATIC

ABSOLUTE

Lavandula hybrida



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Lavandin has fresh, aromatic, sweet and floral notes. It is more herbaceous and camphor-like than Lavender.

Compared to LAVANDIN GROSSO EO, the absolute is warmer, more herbaceous and coumarinic (hay like).

PERFUMERY USAGE

LAVANDIN ABS GREEN TYPE is widely used in Body and Home Care applications.

It blends well with Labdanum, Oakmoss, Vetiver, Patchouli, Pine needle, Coumarin, Clary sage, chypres and fougeres.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.

LAVANDIN CTE GREEN TYPE
220514

AROMATIC
CONCRETE

Lavandula hybrida



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Lavandin has fresh, aromatic, sweet and floral notes.
It is more herbaceous and camphor-like than Lavender.

PERFUMERY USAGE

LAVANDIN CTE GREEN TYPE is widely used in Body and Home Care applications.

It blends well with Labdanum, Oakmoss, Vetiver, Patchouli, Pine needle, Coumarin, Clary sage, chypres and fougeres.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.

LAVANDIN GROSSO EO
954355

AROMATIC
ESSENTIAL OIL

Lavandula hybrida



CAS NUMBER	0008022-15-9
REACH NUMBER	01-2120736147-55
FEMA NUMBER	2618

OLFACTIVE DESCRIPTION

Lavandin has fresh, aromatic, sweet and floral notes.
It is more herbaceous and camphor-like than Lavender.

PERFUMERY USAGE

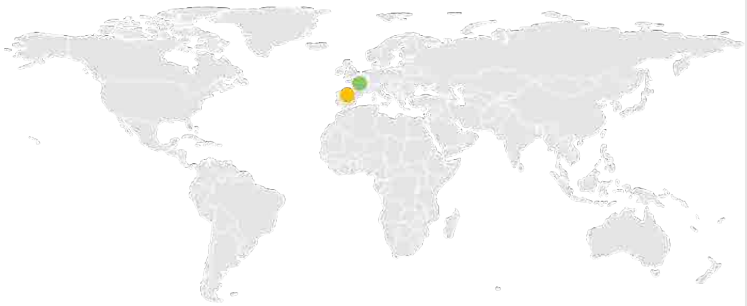
LAVANDIN GROSSO EO is widely used in Body and Home Care applications.

It blends well with Labdanum, Oakmoss, Vetiver, Patchouli, Pine needle, Coumarin, Clary sage, chypres and fougeres.

SOURCING

In Provence, France, Firmenich has developed a responsible sourcing program of local ingredients with its #NaturalsTogether partner.

Provence produces 95% of the Lavandin in the world, a production that is traditionally associated with other aromatic ingredients: Lavender and Clary sage.
Firmenich footprint in Lavandin, one of the largest of the Industry, comes with a responsibility. Heavily involved, Firmenich support its #NaturalsTogether partner to develop a diversification program of Lavandin with Clary Sage, new Lavender hybrids and the introduction of Coriander, a new ingredient in Provence cultivation.
The association of aromatic products ensures a higher and more regular income for farmers.
This diversification is also key to strengthen the future of aromatic crops in Provence.



● Firmenich Main Sourcing Country
FRANCE

● Sourcing countries
SPAIN

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.
Standard yield: 1.8-2%.
50 Kg of flowers app. to produce 1 Kg of essential oil.

LAVENDER ABS TYPE NAT
220487

AROMATIC

FLORAL

ABSOLUTE

Lavandula angustifolia



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Fresh, aromatic, sweet, floral, herbaceous and slightly fruity.

LAVENDER ABS TYPE NAT is warmer, sweeter, hay like (coumarin) and longer-lasting than LAVENDER EO.

PERFUMERY USAGE

This noble profile is used in Fine Fragrance with aromatic, fougere and floral accord.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.

LAVENDER PAYS ABS
954144

AROMATIC

FLORAL

ABSOLUTE

Lavandula angustifolia



CAS NUMBER	0008000-28-0
REACH NUMBER	
FEMA NUMBER	2622

OLFACTIVE DESCRIPTION

Fresh, aromatic, sweet, floral, herbaceous, and slightly fruity.

LAVENDER PAYS ABS is warmer, sweeter, hay like (coumarin) and longer-lasting than LAVENDER MAILLETTE PAYS EO.

PERFUMERY USAGE

This noble profile is used in Fine Fragrance with aromatic, fougere and floral accord.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and flowers.

LEATHER MD
936358

LEATHERY

ANIMALIC

EXTRACT



CAS NUMBER	0074113-74-9
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

The olfactive profile offers smoky, leathery and pyrogenous notes.

PERFUMERY USAGE

LEATHER MD is a technical ingredient obtained by Molecular Distillation of a natural specialty.

It fulfills four primary Firmenich requirements:

- Fluid, soluble and easy to use in automatic blending workshops.
- Safe substitute to a non-IFRA compliant range of products.
- Constant quality.
- Light color.

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

To offer an IFRA compliant solution to perfumers, Firmenich Natural Ingredients Innovation Center in Grasse, France, developed LEATHER MD, a natural alternative to PAH limitation.

LEMON CITRONOVA® 16X FAB
926520

CITRUS
CITRONOVA®

Citrus limon



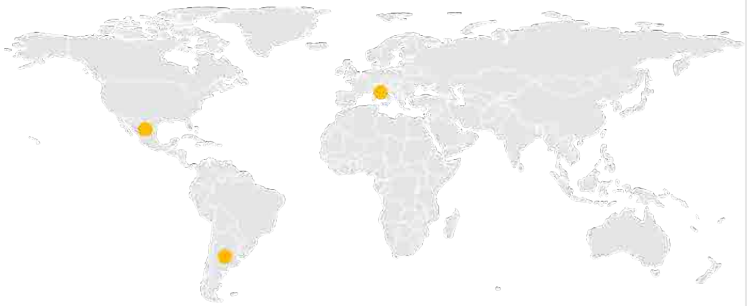
CAS NUMBER	0008008-56-8
REACH NUMBER	
FEMA NUMBER	2625

OLFACTIVE DESCRIPTION

Peely, fruity, aldehydic.

PERFUMERY USAGE

.



Sourcing countries
ARGENTINA - ITALY - MEXICO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■	■	■	■			■

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

LEMON OIL 10X
925615

CITRUS

CITRUS DISTILLATION

Citrus limon



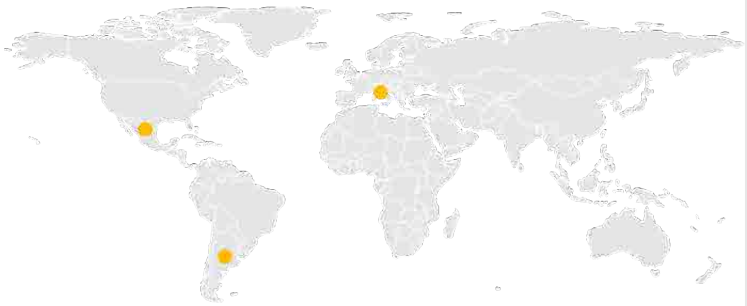
CAS NUMBER	0008008-56-8
REACH NUMBER	
FEMA NUMBER	2625

OLFACTIVE DESCRIPTION

Peely, aldehydic.

PERFUMERY USAGE

.



Sourcing countries

ARGENTINA - ITALY - MEXICO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■	■	■	■			■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

LEMON OIL 4X
925661

CITRUS

CITRUS DISTILLATION

Citrus limon



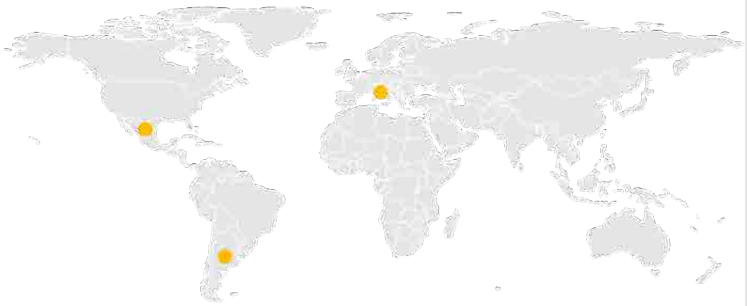
CAS NUMBER	0008008-56-8
REACH NUMBER	
FEMA NUMBER	2625

OLFACTIVE DESCRIPTION

Peely, fruity, floral, green.

PERFUMERY USAGE

.



Sourcing countries

ARGENTINA - ITALY - MEXICO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■	■	■	■			■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

LEMON TERPENES
985462

CITRUS

CITRUS DISTILLATION

Citrus limon



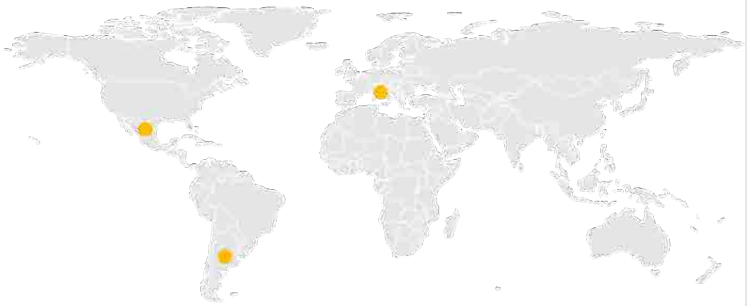
CAS NUMBER	0068917-33-9
REACH NUMBER	01-2119495512-35
FEMA NUMBER	2625

OLFACTIVE DESCRIPTION

Fresh, juicy, sweet.

PERFUMERY USAGE

Citrus terpenes give freshness to any composition.



● Sourcing countries

ARGENTINA - ITALY - MEXICO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■	■	■	■			■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

LEMON TETRAROME® FAB
987333

CITRUS

ALDEHYDIC

TETRAROME®

CAS NUMBER	0008008-56-8
REACH NUMBER	
FEMA NUMBER	2625

Citrus limon



OLFACTIVE DESCRIPTION

LEMON TETRAROME® FAB displays sweet notes with slight candy and peely facets.

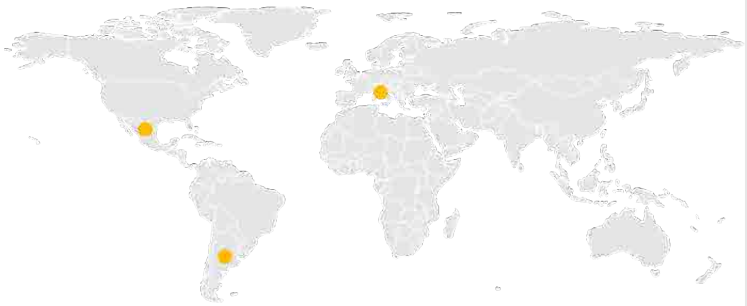
The TETRAROME® range of ingredients offers rare and unique profiles combining nice volatiles preserved from the primary cold expression during the process with low terpenes content.

PERFUMERY USAGE

TETRAROME® is a citrus extract with low limonene content, highly concentrated in citrus oil aldehydes. It is very concentrated compared to a classic process which gives power to citrus notes.

Originally developed for Flavor applications, this 4 fold equivalent product has been largely used by Firmenich Perfumers in different applications.

It elegantly blend in composition with essential oil, offering an incredible long-lasting effect and pure performance.



● Sourcing countries

ARGENTINA - ITALY - MEXICO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■	■	■	■		■	

PROCESS

Extraction of the rich aldehyde fractions of citrus oils obtained first by Cold Expression (primary extraction).

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: peel.
TETRAROME® process is a proprietary technology developed by Firmenich in the 50'.
At this period of time, it was a brand-new technology which is still efficient and unique today.

LIATRIX ABS DECOL
954888

BALSAMIC

AROMATIC

ABSOLUTE

Liatrix odoratissima



CAS NUMBER	0068606-82-6
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

The olfactive profile is sweet, coumarinic, herbal, tobacco-like and offers a pleasant, vanilla-like scent.

PERFUMERY USAGE

LIATRIS ABS DECOL is mainly used to create oriental notes.



● Firmenich Main Sourcing Country
UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.

LIME TAHITI CITRONOVA® FAB
926469

CITRUS
CITRONOVA®

Citrus aurantifolia



CAS NUMBER	0008008-26-2
REACH NUMBER	
FEMA NUMBER	4744

OLFACTIVE DESCRIPTION

Fresh, juicy, coumarinic.

PERFUMERY USAGE

.



Sourcing countries
BRAZIL - MEXICO - PERU

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■	■	■	■	■	■	■		

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

LIME TERPENES
986056

CITRUS

CITRUS DISTILLATION

Citrus aurantifolia



CAS NUMBER	0068917-71-5
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Fresh, juicy, sweet.

PERFUMERY USAGE

Citrus terpenes give freshness to any composition.



Sourcing countries

BRAZIL - MEXICO - PERU

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■	■	■	■	■	■	■		

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

MARJORAM EO
956953

AROMATIC

FLORAL

ESSENTIAL OIL

CAS NUMBER	0008015-01-8
REACH NUMBER	
FEMA NUMBER	2663

Origanum majorana



OLFACTIVE DESCRIPTION

The olfactive profile is typically aromatic, floral, bitter, spicy, with a hint of hay.

PERFUMERY USAGE

MARJORAM EO is used as a modifier in herbaceous and fougere fragrances, as well as masculine and spicy notes.



● Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
Standard yield: 0.2-0.3%.
This ingredient is both convenient for perfumery and flavor applications.

MATE ABS CTX
957218

AROMATIC

GOURMAND

ABSOLUTE

Ilex paraguariensis



CAS NUMBER	0068916-96-1
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Typical mate profile: tea, green, herbaceous, hay tones, tobacco-like odor and fruity, leathery, phenolic undertones.

Very powerful.

PERFUMERY USAGE

It is used more in masculine Fine Fragrance accords to give a tea / tobacco effect.



● Firmenich Main Sourcing Country
BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried leaves.

MATE ABS DECOL CTX
957163

AROMATIC

GOURMAND

ABSOLUTE

Ilex paraguariensis



CAS NUMBER	0068916-96-1
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Typical mate profile: tea, green, herbaceous, hay tones, tobacco-like odor and fruity, leathery, phenolic undertones.

Very powerful.

Deeply herbaceous and tobacco like, the specific process for decoloration brings ahead the noble ambery notes.

PERFUMERY USAGE

It is used more in masculine Fine Fragrance accords to give a tea / tobacco effect.



● Firmenich Main Sourcing Country
BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried leaves.

MIMOSA ABS
960019

GREEN

FLORAL

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Acacia decurrens



OLFACTIVE DESCRIPTION

Green, floral, powdery and slightly fruity.

PERFUMERY USAGE

This absolute brings richness and reinforces floral facet in composition.

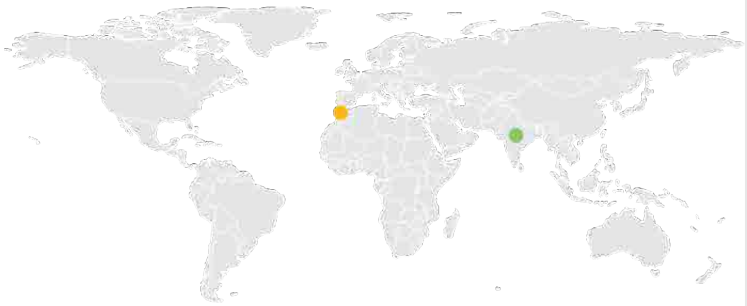
It can be used in floral green notes to give a natural green effect together with fruity melon and cucumber nuances.

SOURCING

Native to Australia and also known under the name of Sidney Black Wattle, Mimosa has been cultivated in many regions of the world for its bark first.
India and Morocco are today the main producing countries of this highly fragrant species.

This mimosa is sourced by Firmenich in India from its local joint venture, Jasmine Concrete EPL.
Jasmine Concrete is purchasing the flowers from local harvesters in Nilgiris and Dindigul districts of Tamil Nadu. Mimosa is collected from wild harvest in this area and then brought to Jasmine Concrete factories for extraction.

Harvests take place during two periods in the region: from March to May and October to November.



Firmenich Main Sourcing Country
INDIA

Sourcing countries
MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■	■					■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: branches and flowers.
450 Kg app. to produce 1 Kg of absolute.
200-250 Kg app. harvested per day per person.
This ingredient is both convenient for perfumery and flavor applications.

MIMOSA MORROCO ABS
960012

GREEN

FLORAL

ABSOLUTE

Acacia decurrens



CAS NUMBER	0008031-03-6
REACH NUMBER	
FEMA NUMBER	2755

OLFACTIVE DESCRIPTION

Green, floral, powdery, fatty and watery effect.

Moroccan origin is more green and woody but less floral.

PERFUMERY USAGE

This absolute brings richness and reinforces floral facet in composition.

It can be used in floral green notes to give a natural green effect together with fruity melon and cucumber nuances.



● Firmenich Main Sourcing Country
MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■							

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: branches and flowers.
450 Kg app. to produce 1 Kg of absolute.
200-250 Kg app. harvested per day per person.
This ingredient is both convenient for perfumery and flavor applications.

MIMOSA PAYS ABS
960024

GREEN

FLORAL

ABSOLUTE

Acacia decurrens



CAS NUMBER	0008031-03-6
REACH NUMBER	
FEMA NUMBER	2755

OLFACTIVE DESCRIPTION

Green, floral, powdery and slightly fruity.

PERFUMERY USAGE

The ultimate reference for floral, green and powdery long-lasting notes.

A slight woody, almond-like note differentiates it from other origins where the green facet is accentuated.

SOURCING

This mimosa of French origin remains one of the exceptional flowers still cultivated in France for Perfumery industry.

The wild harvest of the young branches is performed by hand in February when blooming begins on a very localized area: the Tanneron hills.

The extremities of the plant are cut and carried out immediately in Firmenich Tourrettes' factory (South of France) to be extracted as soon as possible.
The difficult condition of the harvest on wild lands with uneasy access makes it unique in the region.

In France, mimosa is harvested in February – mimosa needs a perfect balance between a cold winter and little water to bloom in the best conditions. Firmenich direct production, relying on fresh flowers supply, enables to get the most beautiful qualities of Mimosa absolute.



Firmenich Main Sourcing Country

FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■										

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: branches and flowers.
450 Kg app. to produce 1 Kg of absolute.
200-250 Kg app. harvested per day per person.

MINT OIL PIPERITA US TYPE SX
960073

AROMATIC
ESSENTIAL OIL

Mentha arvensis & Mentha piperita



CAS NUMBER	0068917-18-0
REACH NUMBER	
FEMA NUMBER	4219

OLFACTIVE DESCRIPTION

A pure and delightful piperita profile, this mint is crafted from proprietary and unique ingredients.
An essence designed around a core of non-traditional natural mints laced with hay and subtle floral accents.

PERFUMERY USAGE

This cost-effective treasure will inspire unique formulations, specially in Home care and Body care applications.

SOURCING

Originally grown mainly in the north-western states of Oregon and Washington, American Peppermints now also grow in Idaho, Indiana and Michigan. American mint earns a high reputation for the quality of its Peppermints, usually considered as far superior to Indian qualities. Mint is grown in large irrigated fields, mechanically harvested and distilled in containers.
This very efficient supply chain has allowed American Mints to remain competitive although production has gradually decreased over the past ten years.
With its own mint unit in Oregon (Essex), Firmenich is at the heart of fields, in a constant process of selecting new hybrids to enrich its palette, a program unique in the world. Essex also focuses on growing mint and producing essential oils with processes that respect the environment, such as energy efficient distillation and water-saving irrigation techniques specific to the landscape of the particular farms.



● Firmenich Main Sourcing Country
UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This essential oil has been designed with our unique and game-changing research, as part of our breakthrough partnership with Essex Laboratories.
This ingredient is both convenient for perfumery and flavor applications.

MINT PIPERITA EO BOULDER SX
960067

AROMATIC
ESSENTIAL OIL

Mentha piperita



CAS NUMBER	0008006-90-4
REACH NUMBER	01-2119974601-36
FEMA NUMBER	2848

OLFACTIVE DESCRIPTION

One of our most recent creations, this exceptional variety was first a success in tea applications. Beaming with unique and intense mint facets, this slightly herbal essential oil, blends camphor notes with fruity aspects and coconut hints elegantly.

PERFUMERY USAGE

MINT PIPERITA EO BOULDER SX will bring uniqueness and mint signature in many Home care and Body care applications.

SOURCING

Originally grown mainly in the north-western states of Oregon and Washington, American Peppermints now also grow in Idaho, Indiana and Michigan. American mint earns a high reputation for the quality of its Peppermints, usually considered as far superior to Indian qualities. Mint is grown in large irrigated fields, mechanically harvested and distilled in containers.
This very efficient supply chain has allowed American Mints to remain competitive although production has gradually decreased over the past ten years.
With its own mint unit in Oregon (Essex), Firmenich is at the heart of fields, in a constant process of selecting new hybrids to enrich its palette, a program unique in the world. Essex also focuses on growing mint and producing essential oils with processes that respect the environment, such as energy efficient distillation and water-saving irrigation techniques specific to the landscape of the particular farms.



● Firmenich Main Sourcing Country
UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This essential oil has been designed with our unique and game-changing research, as part of our breakthrough partnership with Essex Laboratories.

MINT PIPERITA EO CASCADE SX
983169

AROMATIC
ESSENTIAL OIL

Mentha piperita



CAS NUMBER	0008006-90-4
REACH NUMBER	01-2119974601-36
FEMA NUMBER	2848

OLFACTIVE DESCRIPTION

Made possible through the expertise of our botanical specialists, this essential oil is round, full-bodied and intense. With a medium menthol content, this variety is designed to enhance both fresh and aromatic herbal notes of hay, gently supported by lactonic and floral hints.

PERFUMERY USAGE

This profile will bring uniqueness and mint signature in many Home care and Body care applications.

SOURCING

Originally grown mainly in the north-western states of Oregon and Washington, American Peppermints now also grow in Idaho, Indiana and Michigan. American mint earns a high reputation for the quality of its Peppermints, usually considered as far superior to Indian qualities. Mint is grown in large irrigated fields, mechanically harvested and distilled in containers.
This very efficient supply chain has allowed American Mints to remain competitive although production has gradually decreased over the past ten years.
With its own mint unit in Oregon (Essex), Firmenich is at the heart of fields, in a constant process of selecting new hybrids to enrich its palette, a program unique in the world. Essex also focuses on growing mint and producing essential oils with processes that respect the environment, such as energy efficient distillation and water-saving irrigation techniques specific to the landscape of the particular farms.



● Firmenich Main Sourcing Country
UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This essential oil has been designed with our unique and game-changing research, as part of our breakthrough partnership with Essex Laboratories.
This ingredient is both convenient for perfumery and flavor applications.

MINT SPICATA ABS
957582

AROMATIC

ABSOLUTE

Mentha spicata



CAS NUMBER	0008008-79-5
REACH NUMBER	
FEMA NUMBER	3032

OLFACTIVE DESCRIPTION

The olfactive profile combines anise seed, leaf and spearmint facets.

It gives a unique freshness and green herbaceous notes.

The nice gourmand impact of green mint brings a differentiated profile.

PERFUMERY USAGE

Mint Spicata also known as "Spearmint" or "Menthe crepue" in french, is used in mint tea or chewing-gum.

Its olfactive profile stands out from all other mints and bring gourmand facets.

The absolute brings a long-lasting effect in composition.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This ingredient is both convenient for perfumery and flavor applications.

MYRRH ABS
962741

AMBERY

BALSAMIC

ABSOLUTE

Commiphora myrrha



CAS NUMBER	0008016-37-3
REACH NUMBER	01-2120227919-44
FEMA NUMBER	2766

OLFACTIVE DESCRIPTION

Sweet, ambery, balsamic, Myrrh reveals liquorice and smoky undertones.

The profile is both warm and gourmand.

PERFUMERY USAGE

Used in Fine Fragrance for oriental, gourmand and chypre accords.
It gives a deep balsamic and ambery facet with a typical liquorice effect.



● Sourcing countries
ETHIOPIA - SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■			■	■	■	■	■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

MYRRH EO
962728

AMBERY

BALSAMIC

ESSENTIAL OIL

Commiphora myrrha



CAS NUMBER	0008016-37-3
REACH NUMBER	01-2120763990-45
FEMA NUMBER	2766

OLFACTIVE DESCRIPTION

Sweet, ambery, balsamic, Myrrh reveals liquorice and smoky undertones.

Its odor is warm-spicy, with a very peculiar sharp-balsamic aspect.

PERFUMERY USAGE

Used in Fine Fragrance for oriental, gourmand and chypre accords.
It gives a deep balsamic and ambery facet with a typical liquorice effect.



● Sourcing countries
ETHIOPIA - SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■			■	■	■	■	■			■

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

MYRRH OIL
962731

AMBERY

BALSAMIC

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Commiphora myrrha



OLFACTIVE DESCRIPTION

Sweet, ambery, balsamic, Myrrh reveals liquorice and smoky undertones.

Its odor is warm-spicy, with a very peculiar sharp-balsamic aspect.

A typical profile with fresh, mushroom, camphor-like, spicy and musky notes.



Sourcing countries

ETHIOPIA - SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■			■	■	■	■	■			■

PERFUMERY USAGE

Used in Fine Fragrance for oriental, gourmand and chypre accords.
It gives a deep balsamic and ambery facet with a typical liquorice effect.

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

MYRRH SFE
962735

AMBERY

BALSAMIC

SFE

CAS NUMBER	0008016-37-3
REACH NUMBER	
FEMA NUMBER	2766

Commiphora myrrha



OLFACTIVE DESCRIPTION

Sweet, ambery, balsamic, Myrrh reveals liquorice and smoky undertones.

The clean, fresh profile obtained with this technology enhances the powerful liquorice-like effect.

MYRRH SFE blends together top notes from the essential oil and fixing effect of the resinoid.

PERFUMERY USAGE

Used in Fine Fragrance for oriental, gourmand and chypre accords.
It gives a deep balsamic and ambery facet with a typical liquorice effect.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Sourcing countries
ETHIOPIA - SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■			■	■	■	■	■			■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.

NEROLI BIGARADE EO
966689

FLORAL

WHITE FLOWER

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Citrus aurantium



OLFACTIVE DESCRIPTION

Floral (orange blossom), sweet, citrus, slightly green and very addictive with animalic facets.
Tunisian origin is floral and sweet while Moroccan is slightly animalic.

PERFUMERY USAGE

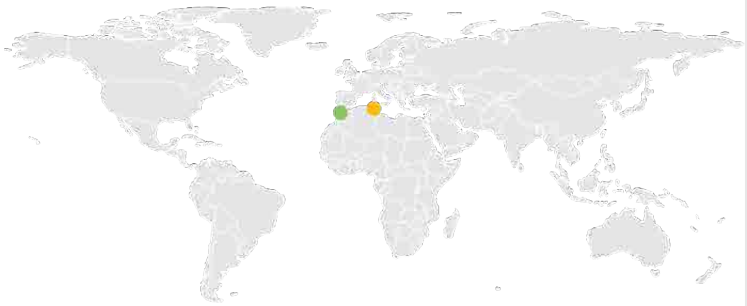
It is used in floral notes to give a very addictive orange blossom effect (fougassette).

SOURCING

In Morocco, Firmenich sources Orange Flower extracts mostly from its partner #NaturalsTogether, a leading actor of Orange flowers products, fully integrated on this crop which ensures quality and that works with a strong sense of responsibility for people and nature.

To produce Firmenich annual consumption, we estimate that more than 1500 women are picking orange flowers on the trees during 15 to 20 days from end of March to mid-April. Yet, as this short harvest is competing with other local activities, it is a challenge for Firmenich supplier to ensure enough pickers for its collect.

Together with its #NaturalsTogether partner and a local NGO, Firmenich is engaging long term actions in the Dar Belamri area, the traditional area for orange flower harvest in Morocco. The objective is to improve women pickers' livelihoods with additional revenues, which will also contribute to ensure their dedication for orange flower harvest.



Firmenich Main Sourcing Country
MOROCCO

Sourcing countries
TUNISIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			●								

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part of the plant: flowers.
1.5 million flowers app. harvested in 1 Kg.
1000 Kg of flowers app to produce 1 Kg of essence (approx 1.5 million flowers)
5-7 Kg of flowers app harvested per day per person.
Standard yield: 0.08-0.13%

NEROLI MOROCCO EO
966805

FLORAL

WHITE FLOWER

ESSENTIAL OIL

CAS NUMBER	0008016-38-4
REACH NUMBER	
FEMA NUMBER	2771

Citrus aurantium



OLFACTIVE DESCRIPTION

Floral (white flowers), orange flower, green, honey and slightly animalic.
Tunisian origin is floral and sweet while Moroccan is slightly animalic.

PERFUMERY USAGE

It is used in floral notes to give a very addictive orange blossom effect (fougassette).

SOURCING

In Morocco, Firmenich sources Orange Flower extracts mostly from its partner #NaturalsTogether, a leading actor of Orange flowers products, fully integrated on this crop which ensures quality and that works with a strong sense of responsibility for people and nature.

To produce Firmenich annual consumption, we estimate that more than 1500 women are picking orange flowers on the trees during 15 to 20 days from end of March to mid-April. Yet, as this short harvest is competing with other local activities, it is a challenge for Firmenich supplier to ensure enough pickers for its collect.

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Firmenich Main Sourcing Country
MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			●								

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part of the plant: flowers.
1.5 million flowers app. harvested in 1 Kg.
1000 Kg of flowers app to produce 1 Kg of essence (approx 1.5 million flowers)
5-7 Kg of flowers app harvested per day per person.
Standard yield: 0.08-0.13%

NUTMEG EO RECT
962178

SPICY
ESSENTIAL OIL

Myristica fragrans



CAS NUMBER	0008008-45-5
REACH NUMBER	
FEMA NUMBER	2793

OLFACTIVE DESCRIPTION

Spicy, warm, woody.

Less terpenic than a regular essential oil, the powdery bottom notes are sharper.

PERFUMERY USAGE

Thanks to its balsamic, fresh and tenacious citrus note, this oil is easily used in oriental, amber and powdery bases.



Firmenich Main Sourcing Country
INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruits.
International Fragrance Association (IFRA) regulations limit the use of Safrole in fragrance composition.

NUTMEG EO SLC
962118

SPICY
ESSENTIAL OIL

Myristica fragrans



CAS NUMBER	0008008-45-5
REACH NUMBER	
FEMA NUMBER	2793

OLFACTIVE DESCRIPTION

Spicy, warm, powdery, woody, terpenic.

The "burnt rubber" off-note is removed with this process, offering an enhanced spicy, woody, fruity and fresh profile.

PERFUMERY USAGE

This complete technical solution which led to SLC (Safrole Low Content) increases the applicability of NUTMEG EO in all applications that fall under REACH, such as fragrances.

Thanks to its balsamic, fresh and tenacious citrus note, this oil is easily used in oriental, amber and powdery bases.



● Firmenich Main Sourcing Country
INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruits.
Fractions analysis and recovering has led to the creation of an essential oil with a very low Safrole and Eugenol content (SLC).
This ingredient is both convenient for perfumery and flavor applications.

NUTMEG OIL TYPE
220572

SPICY

ESSENTIAL OIL

Myristica fragrans



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Spicy, terpenic, citrus, powdery.

NUTMEG OIL TYPE is more fruity and woody than the standard essential oil.

PERFUMERY USAGE

Thanks to its balsamic, fresh and tenacious citrus note, this oil is easily used in oriental, amber and powdery bases.

The top note is typically aromatic for this unique reference which represent a differentiating signature.



● Firmenich Main Sourcing Country
INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruits.
International Fragrance Association (IFRA) regulations limit the use of Safrole in fragrance composition.

OAKMOSS FIRBEST 50 MIP
942627

EARTHY - MOSSY

FIRBEST



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, mossy, very long-lasting with the typical marine seaweed facet of the traditional Oakmoss extract.

Through the range of FIRBEST MOSSES, perfumers will rediscover the olfactory profile of old-time traditional Mosses.

PERFUMERY USAGE

OAKMOSS FIRBEST 50% MIP contains no trace of natural Oakmoss.

The maximum recommended dosage is 2%.

- Firbest Mosses are used at a ratio of 1/1 versus natural Moss extracts.
- Clearer in color than traditional natural extracts, it can be used in a greater number of applications.
- The use of carrier ensures perfect solubility and is convenient in automated workshops.

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

In response to the regulations on natural extracts or to a creative need, Firmenich has developed FIRBEST. These specialties contain naturals but NOT the named ingredient.

OAKMOSS RES FIRBEST
942636

EARTHY - MOSSY

FIRBEST



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, mossy, very long-lasting with the typical marine seaweed facet of the traditional Oakmoss extract.

Through the range of FIRBEST MOSSES, perfumers will rediscover the olfactory profile of old-time traditional Mosses.

PERFUMERY USAGE

OAKMOSS RES FIRBEST contains no trace of natural Oakmoss.

The maximum recommended dosage is 2%.

- Firbest Mosses are used at a ratio of 1/1 versus natural Moss extracts.
- Clearer in color than traditional natural extracts, it can be used in a greater number of applications.
- The use of carrier ensures perfect solubility and is convenient in automated workshops.

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

In response to the regulations on natural extracts or to a creative need, Firmenich has developed FIRBEST. These specialties contain naturals but NOT the named ingredient.

OLIBANUM EO
967844

AMBERY

BALSAMIC

ESSENTIAL OIL

CAS NUMBER	0008016-36-2
REACH NUMBER	01-2120738865-41
FEMA NUMBER	2816

Boswellia carterii



OLFACTIVE DESCRIPTION

With a sweet, woody and balsamic undertone, Olibanum offers a green, terpenic, citrusy, peppery and resinous profile.

Sensual and rich, the note is typically oriental.

Compared to the resinoid the essential oil is fresher, more citrus and terpenic.

PERFUMERY USAGE

Olibanum is used in fine fragrance.

It provides spicy, lemony, balsamic notes, and is reminiscent of Myrrh and Elemi.



● Firmenich Main Sourcing Country
SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum (called "tears" due to the way the gum exudes from the trunk of the tree).
This ingredient is both convenient for perfumery and flavor applications.

OLIBANUM EO RECT
967866

AMBERY

BALSAMIC

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Boswellia carterii



OLFACTIVE DESCRIPTION

With a sweet, woody and balsamic undertone, Olibanum offers a green, terpenic, citrusy, peppery and resinous profile.

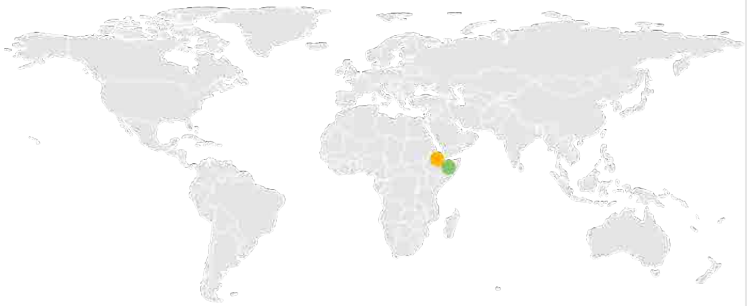
Sensual and rich, the note is typically oriental.

OLIBANUM EO RECT offers a richer and warmer profile.

Compared to the resinoid the essential oil is fresher, more citrus and terpenic.

PERFUMERY USAGE

The rectification process removes aggressive notes and brings long-lastingness.



● Firmenich Main Sourcing Country
SOMALIA

● Sourcing countries
ETHIOPIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum (called "tears" due to the way the gum exudes from the trunk of the tree).
Additional process: rectification.

OLIBANUM RES
967875

AMBERY

BALSAMIC

RESINOID

CAS NUMBER	0008016-36-2
REACH NUMBER	01-2120747564-48
FEMA NUMBER	2816

Boswellia carterii



OLFACTIVE DESCRIPTION

With a sweet, woody and balsamic undertone, Olibanum offers a green, terpenic, citrusy, peppery and resinous profile.

Sensual and rich, the note is typically oriental.

Compared to the essential oil, the resinoid is warmer, more resinous, balsamic and oriental.

PERFUMERY USAGE

Resinoids are usually used to bring a fixing effect and typical balsamic, resinous and warm notes.



● Firmenich Main Sourcing Country
SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum (called "tears" due to the way the gum exudes from the trunk of the tree).

OLIBANUM RES 80 TEC
967880

AMBERY

BALSAMIC

RESINOID

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Boswellia carterii



OLFACTIVE DESCRIPTION

With a sweet, woody and balsamic undertone, Olibanum offers a green, terpenic, citrusy, peppery and resinous profile.
Sensual and rich, the note is typically oriental.

Compared to the essential oil, the resinoid is warmer, more resinous, balsamic and oriental.

PERFUMERY USAGE

Resinoids are usually used to bring a fixing effect and typical balsamic, resinous and warm notes.



● Sourcing countries
ETHIOPIA - SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum (called "tears" due to the way the gum exudes from the trunk of the tree).

OLIBANUM RES VULCAIN
939912

LEATHERY

AMBERY

VULCAIN (PYROGENIZED)

CAS NUMBER	0008016-36-2
REACH NUMBER	
FEMA NUMBER	2816

Boswellia carterii



OLFACTIVE DESCRIPTION

Traditionally, Olibanum has a sweet, woody and balsamic profile which offers a green, terpenic, citrusy, peppery and resinous hints.
Sensual and rich, the note is typically oriental.

The Pyrogenation process sublimates the original note by adding an intense and warm leathery effect together with a radiant dry-down.

Most of the time in Perfumery, the aim is to preserve top notes, freshness, volatile and raw material fidelity.
With the Pyrogenation, the target is opposite: heavy, pyrogenized and leathery notes are sought.



● Sourcing countries
ETHIOPIA - SOMALIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PERFUMERY USAGE

The VULCAIN range (Pyrogenized) is developed by Firmenich Natural Ingredients Innovation Center and offers a collection of wider and more intense notes than those of the original extracts.

They provide a technical solution in the range of leathery notes with a great olfactory potential, and thus a use at very low dosage.

PROCESS

VULCAIN is the name of Firmenich Pyrogenation - A controlled and monitored creation of pyrogenized molecules during a specific heating process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum (called "tears" due to the way the gum exudes from the trunk of the tree).
In Ancient Rome and Hellenic religion, VULCAIN is the god of fire, including the fire of volcanoes.

OLIBANUM SFE
939926

AMBERY

BALSAMIC

SFE

CAS NUMBER	0008016-36-2
REACH NUMBER	
FEMA NUMBER	2816

Boswellia carterii



OLFACTIVE DESCRIPTION

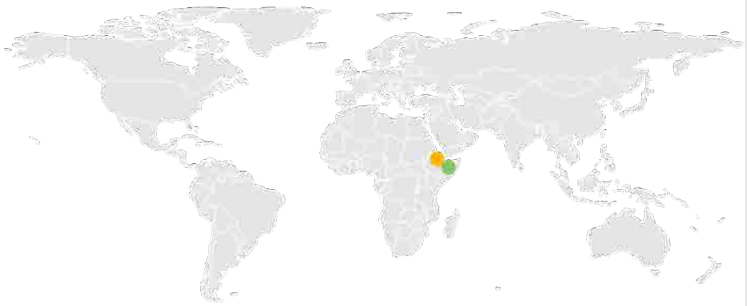
With a sweet, woody and balsamic undertone, traditional Olibanum offers a green, terpenic, citrusy, peppery and resinous profile.

Sensual and rich, the note is typically oriental.

OLIBANUM SFE offers an extremely pure, noble, fresh and clean profile; highly differentiating.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



- Firmenich Main Sourcing Country
  SOMALIA
- Sourcing countries
  ETHIOPIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum (called "tears" due to the way the gum exudes from the trunk of the tree).

OPOPONAX ABS
968239

AMBERY

BALSAMIC

ABSOLUTE

CAS NUMBER	0008021-36-1
REACH NUMBER	01-2120227917-48
FEMA NUMBER	

Commiphora erythraea



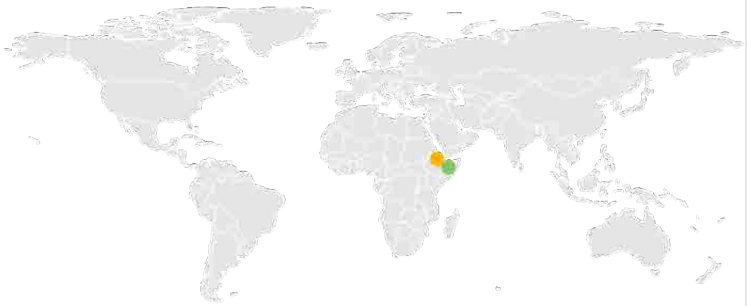
OLFACTIVE DESCRIPTION

Sweet, earthy, slightly liqueur-like and mushroom, with a spicy profile.

Compared to the essential oil, OPOPONAX ABS is warmer, sweeter and more long-lasting.

PERFUMERY USAGE

Opoponax is used in fine fragrance as well as in functional perfumery, as a fixative in oriental notes.



- Firmenich Main Sourcing Country
  SOMALIA
- Sourcing countries
  ETHIOPIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

OPOPONAX EO
968188

AMBERY

BALSAMIC

ESSENTIAL OIL

Commiphora erythraea



CAS NUMBER	0008021-36-1
REACH NUMBER	
FEMA NUMBER	

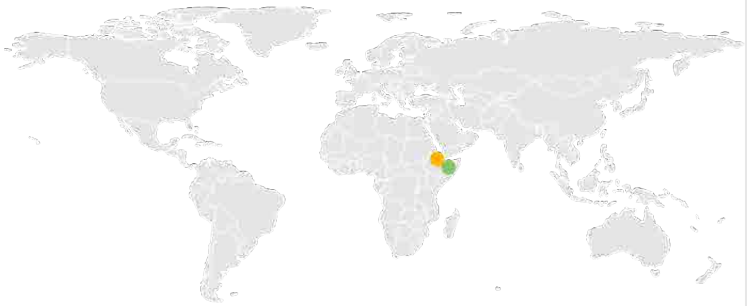
OLFACTIVE DESCRIPTION

Sweet, earthy, with a spicy profile.

OPOPONAX EO is very strong, fresh, balsamic with mushroom and liquorice effect.

PERFUMERY USAGE

Opoponax is used in fine fragrance as well as in functional perfumery, as a fixative in oriental notes.



- Firmenich Main Sourcing Country
  SOMALIA
- Sourcing countries
  ETHIOPIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE CARBONYLES
968402

CITRUS

CITRUS DISTILLATION

Citrus sinensis



CAS NUMBER	0068514-75-0
REACH NUMBER	
FEMA NUMBER	2821

OLFACTIVE DESCRIPTION

Fatty, waxy, peely, floral.

PERFUMERY USAGE

.



Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE CITRONOVA® 20X FAB
926444

CITRUS

CITRONOVA®

Citrus sinensis



CAS NUMBER	0008008-57-9
REACH NUMBER	
FEMA NUMBER	2825

OLFACTIVE DESCRIPTION

Aldehydic, fruity, fleshy, well balanced.

PERFUMERY USAGE

.



● Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE CITRONOVA® 5X FAB
926477

CITRUS
CITRONOVA®

Citrus sinensis



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Peely, fruity, aldehydic.
Citrus, orange with aldehydic notes.

PERFUMERY USAGE

.



Sourcing countries
BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE CITRONOVA® 60X FAB
926437

CITRUS

CITRONOVA®

Citrus sinensis



CAS NUMBER	0068606-94-0
REACH NUMBER	
FEMA NUMBER	2826

OLFACTIVE DESCRIPTION

Aldehydic, peely, waxy, bitter, anise effect.

PERFUMERY USAGE

.



Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE ESS 10X
968457

CITRUS

CITRUS DISTILLATION

Citrus sinensis



CAS NUMBER	0068514-75-0
REACH NUMBER	
FEMA NUMBER	2821

OLFACTIVE DESCRIPTION

Fresh, juicy, sweet.

PERFUMERY USAGE

.



Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE FLOWER MOROCCO ABS
942780

FLORAL

WHITE FLOWER

ABSOLUTE

Citrus aurantium



CAS NUMBER	0008016-38-4
REACH NUMBER	
FEMA NUMBER	2818

OLFACTIVE DESCRIPTION

Green, floral, sweet, fruity.
Moroccan origin is more animalic, indolic, warm.

PERFUMERY USAGE

Used in Fine Fragrance especially in floral composition. The absolute forms excellent combinations with all citrus oils, petitgrain, jasmine or myrrh in floral compositions.

SOURCING

In Morocco, Firmenich sources Orange Flower extracts mostly from its partner #NaturalsTogether, a leading actor of Orange flowers products, fully integrated on this crop which ensures quality and that works with a strong sense of responsibility for people and nature.

To produce Firmenich annual consumption, we estimate that more than 1500 women are picking orange flowers on the trees during 15 to 20 days from end of March to mid-April. Yet, as this short harvest is competing with other local activities, it is a challenge for Firmenich supplier to ensure enough pickers for its collect.

Together with its #NaturalsTogether partner and a local NGO, Firmenich is engaging long term actions in the Dar Belamri area, the traditional area for orange flower harvest in Morocco. The objective is to improve women pickers' livelihoods with additional revenues, which will also contribute to ensure their dedication for orange flower harvest.



Firmenich Main Sourcing Country
MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			●								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
850 Kg of flowers app to produce 1 Kg of absolute.
1,3 million of orange flowers to produce 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE FLOWER TUNISIA ABS
942790

FLORAL

WHITE FLOWER

ABSOLUTE

Citrus aurantium



CAS NUMBER	0008016-38-4
REACH NUMBER	
FEMA NUMBER	2818

OLFACTIVE DESCRIPTION

Green, floral, sweet, fruity.

Tunisian origin is the most typical, floral with a warm and orange flower profile.

PERFUMERY USAGE

Used in Fine Fragrance especially in floral composition.

The absolute forms excellent combinations with all citrus oils, petitgrain, jasmine or myrrh in floral composition.



Firmenich Main Sourcing Country

TUNISIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			●								

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
850 Kg of flowers app to produce 1 Kg of absolute.
1,3 million of orange flowers to produce 1 Kg of absolute.

ORANGE OIL 10X
968392

CITRUS

ALDEHYDIC

CITRUS DISTILLATION

CAS NUMBER	0008008-57-9
REACH NUMBER	01-2119493353-35
FEMA NUMBER	2825

Citrus sinensis



OLFACTIVE DESCRIPTION

Citrus, peely, aldehydic.

This concentrated extract offers fresh, tangy orange peel notes perfectly balanced with a sweet juicy effect.

PERFUMERY USAGE

In perfumery, it enhances the citrus-zesty notes and gives long-lastingness to compositions.



Firmenich Main Sourcing Country

BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■					■	■	■	■	■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE OIL DECOL
974771

CITRUS

CITRUS DISTILLATION

Citrus sinensis



CAS NUMBER	0008008-57-9
REACH NUMBER	01-2119493353-35
FEMA NUMBER	2825

OLFACTIVE DESCRIPTION

The sweet orange odor (in contrast to bitter orange) is very reminiscent of the fruit's peel when squeezed. It is both fresh and sweet.

PERFUMERY USAGE

Very useful to give fresh fruity fresh start to the composition.
Blends well with other citrus, lavender, spices.



● Firmenich Main Sourcing Country
BRAZIL

● Sourcing countries
UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■	■		

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
1250 fruits app. to produce 1 Kg of Essential oil.
250 Kg of fruits app to produce 1 Kg of Essential oil.
Additional process: molecular distillation.

ORANGE TERPENES CITRONOVA® FAB
986243

CITRUS

ALDEHYDIC

CITRUS DISTILLATION

Citrus sinensis



CAS NUMBER	0068647-72-3
REACH NUMBER	01-2119493353-35
FEMA NUMBER	2821

OLFACTIVE DESCRIPTION

Fresh, juicy, sweet, with citrus, orange and aldehydic notes.

PERFUMERY USAGE

Citrus terpenes give freshness to any compositions.



● Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE TETRAROME® FAB
987442

CITRUS

ALDEHYDIC

TETRAROME®

CAS NUMBER	0008008-57-9
REACH NUMBER	01-2119529223-47
FEMA NUMBER	2825

Citrus sinensis



OLFACTIVE DESCRIPTION

TETRARÔME® ORANGE is designed to enhance fresh, citrus and zesty effect.
It calls to mind an elegant ribbon of orange peel.

The TETRARÔME® range of ingredients offers rare and unique profiles combining nice volatiles preserved from the primary cold expression during the process with low terpenes content.

PERFUMERY USAGE

TETRARÔME® is a citrus extract with low limonene content, highly concentrated in citrus oil aldehydes.
It is very concentrated compared to a classic process which gives power to citrus notes.

Originally developed for Flavor applications, this 4 fold equivalent product has been largely used by Firmenich Perfumers in different applications.

It elegantly blend in composition with essential oil, offering an incredible long-lasting effect and pure performance.



● Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

Extraction of the rich aldehyde fractions of citrus oils obtained first by Cold Expression (primary extraction).

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: peel.
TETRARÔME® process is a proprietary technology developed by Firmenich in the 50'.
At this period of time, it was a brand-new technology which is still efficient and unique today.

ORANGE VALENCIA OIL 5X
968374

CITRUS

CITRUS DISTILLATION

Citrus sinensis



CAS NUMBER	0008008-57-9
REACH NUMBER	01-2119493353-35
FEMA NUMBER	2825

OLFACTIVE DESCRIPTION

Peely, sweet.

PERFUMERY USAGE

.



Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORANGE VALENCIA OIL DECOL
968442

CITRUS

CITRUS DISTILLATION

Citrus sinensis



CAS NUMBER	0008008-57-9
REACH NUMBER	01-2119493353-35
FEMA NUMBER	2825

OLFACTIVE DESCRIPTION

Peely, sweet.

PERFUMERY USAGE

While colorless, it can be applied in higher concentrations.



Sourcing countries

BRAZIL - MEXICO - UNITED STATES OF AMERICA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■		■	■	■	■	■	■	■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

ORRIS ABS 75 IRONE
950335

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Iris pallida & Iris germanica



OLFACTIVE DESCRIPTION

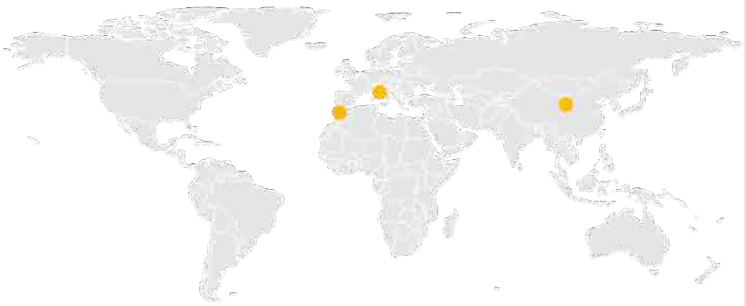
Powdery, floral, green, woody and reminiscent of violet flower.

Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
The higher the irones content is, the most powerful will be the powdery note.

PERFUMERY USAGE

Used in Fine Fragrance to give natural powdery and violet flower effect. Very strong and complex.

As orris extracts can be used also in flavors, especially in red fruit notes such as raspberry, they are of interest for such gourmand note in perfumery.



● Sourcing countries

CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Distillation of the roots yields an essential oil that becomes solid at room temperature. It is called "Orris butter" or "Orris concrete".
This ingredient is both convenient for perfumery and flavor applications.

ORRIS CTE NAT 15 IRONE
950121

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

Iris pallida & Iris germanica



CAS NUMBER	0008002-73-1
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS CTE NAT 15 IRONE has a very powdery and sweet profile.

Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
The higher the irones content is, the most powerful will be the powdery note.

PERFUMERY USAGE

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.



● Sourcing countries

CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Distillation of the roots yields an essential oil that becomes solid at room temperature. It is called "Orris butter" or "Orris concrete".
This ingredient is both convenient for perfumery and flavor applications.

ORRIS CTE NAT 8 IRONE
950128

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

Iris pallida & Iris germanica



CAS NUMBER	0008002-73-1
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS CTE NAT 8 IRONE has a very powdery and sweet profile.

Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
The higher the irones content is, the most powerful will be the powdery note.

PERFUMERY USAGE

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.



● Sourcing countries

CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Distillation of the roots yields an essential oil that becomes solid at room temperature. It is called "Orris butter" or "Orris concrete".
This ingredient is both convenient for perfumery and flavor applications.

ORRIS CTE TYPE 15 IRONE
220489

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Iris pallida & Iris germanica



OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS CTE TYPE 15 IRONE has a very powdery and sweet profile.

Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
The higher the irones content is, the most powerful will be the powdery note.



● Sourcing countries
CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PERFUMERY USAGE

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Distillation of the roots yields an essential oil that becomes solid at room temperature. It is called "Orris butter" or "Orris concrete".
This ingredient is both convenient for perfumery and flavor applications.

ORRIS CTE TYPE 8 IRONE
950179

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Iris pallida & Iris germanica



OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS CTE TYPE 8 IRONE has a very powdery and sweet profile.

Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
The higher the irones content is, the most powerful will be the powdery note.



● Sourcing countries

CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PERFUMERY USAGE

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Distillation of the roots yields an essential oil that becomes solid at room temperature. It is called "Orris butter" or "Orris concrete".
This ingredient is both convenient for perfumery and flavor applications.

ORRIS EXT
950123

FLORAL

VIOLET – ORRIS

NATURAL SPECIALTY

Iris pallida & Iris germanica



CAS NUMBER	1048028-77-8
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS EXT has a gourmand and sweet profile with cocoa nuances.

PERFUMERY USAGE

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.

ORRIS EXT contains a high amont of SFE which preserves all the facets and the natural profile identity to guarantee a high purity extract. This quality is perfectly soluble.



● Sourcing countries
CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
This ingredient is both convenient for perfumery and flavor applications.

ORRIS RES ABS
950124

FLORAL

VIOLET – ORRIS

EXTRACT

Iris germanica



CAS NUMBER	1048028-77-8
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS RES ABS has a gourmand and sweet profile with cocoa nuances.

PERFUMERY USAGE

It is used in Fine Fragrance to give a natural gourmand effect.

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.



● Firmenich Main Sourcing Country
MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
This ingredient is both convenient for perfumery and flavor applications.

ORRIS RES ABS TYPE
220454

FLORAL

VIOLET – ORRIS

EXTRACT

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Iris pallida & Iris germanica



OLFACTIVE DESCRIPTION

Powdery, floral, green, woody and reminiscent of violet flower.
ORRIS RES ABS TYPE has a gourmand and sweet profile with cocoa nuances.

PERFUMERY USAGE

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.



● Sourcing countries
CHINA - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.

ORRISCIENCE 15 IRONE
950290

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

Iris germanica & Iris pallida



CAS NUMBER	1048028-77-8
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

ORRISCIENCE is the perfect balance of all the orris facets: the green top notes gradually give way to amazing violet flowers notes due to irone, leaving behind woody powdery sensuality.

ORRISCIENCE 15 IRONE is greener, but less floral and powdery than the same absolute obtained by standard process.

The irones content determines the powdery, warmth and violet profile.



Sourcing countries

CHINA - ITALY - MOROCCO

PERFUMERY USAGE

Powerful, with long-lasting effect.

Cost effective, it can be used at a higher level than traditional orris extract,to give an incredible luxury signature to the composition.

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.

This ingredient is both convenient for perfumery and flavor applications.

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
Orriscience is one of the latest Firmenich innovation in Orris processing.
Distillation of the roots yields a "butter".

ORRISCIENCE 75 IRONE
950342

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

CAS NUMBER	1048028-77-8
REACH NUMBER	
FEMA NUMBER	

Iris germanica & Iris pallida



OLFACTIVE DESCRIPTION

ORRISCIENCE is the perfect balance of all the orris facets: the green top notes gradually give way to amazing violet flowers notes due to irone, leaving behind woody powdery sensuality.

ORRISCIENCE 75 IRONE is greener, but less floral and powdery than the same absolute obtained by standard process.

The high irones content makes it one of the most powerful powdery note in the range of Orris extracts.



Sourcing countries

CHINA - ITALY - MOROCCO

PERFUMERY USAGE

Powerful, with long-lasting effect.

Cost effective, it can be used at a higher level than traditional orris extract,to give an incredible luxury signature to the composition.

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.

This ingredient is both convenient for perfumery and flavor applications.

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
Orriscience is one of the latest Firmenich innovation in Orris processing.
Distillation of the roots yields a "butter".

ORRISCIENCE 8 IRONE
950289

FLORAL

VIOLET – ORRIS

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Iris germanica & Iris pallida



OLFACTIVE DESCRIPTION

ORRISCIENCE is the perfect balance of all the orris facets: the green top notes gradually give way to amazing violet flowers notes due to irone, leaving behind woody powdery sensuality.

Powdery, floral, green, woody and reminiscent of violet flower.

ORRISCIENCE 8 IRONE shows remarkable performance in composition bringing to light all the reward of traditional orris concrete.

The irones content determines the powdery, warmth and violet profile.



Sourcing countries

CHINA - ITALY - MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PERFUMERY USAGE

Powerful, with long-lasting effect.

Cost effective, it can be used at a higher level than traditional orris extract,to give an incredible luxury signature to the composition.

Orris extracts can be used in perfumery as well as in flavors, especially in red fruit notes such as raspberry.

This ingredient is both convenient for perfumery and flavor applications.

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: rhizomes.
Rhizomes' maturation drives the development of irones, which characterize the powdery note of Orris.
Orriscience is one of the latest Firmenich innovation in Orris processing.
Distillation of the roots yields a "butter".

OSMANTHUS ABS
969340

FRUITY

FLORAL

ABSOLUTE

CAS NUMBER	0068917-05-5
REACH NUMBER	
FEMA NUMBER	3750

Osmanthus fragrans



OLFACTIVE DESCRIPTION

OSMANTHUS ABS has delicate and unique fruity-floral facets reminiscent of dried apricot and white flowers with leathery undertone.

PERFUMERY USAGE

A subtle floral for all seasons, Osmanthus is remarkably original and feminine.

It brings in feminine compositions an exotic floral facet together with apricot fruity notes.



● Firmenich Main Sourcing Country
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
								■	■		

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
21 millions of fresh flowers app. to produce 1 Kg of absolute.
930 Kg of flowers app to produce 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

OUD ANOKHA
283528

OUD

NATURAL SPECIALTY



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, leathery, ambery, animalic.

Very powerful, complex with the richness and diffusivity of natural oud oil.

PERFUMERY USAGE

Firmenich created 3 captivating specialties with OUD ASSAFI™ to enlarge the experience of the magic.

SOURCING

For several generations, our #NaturalsTogether partner Jalali Agarwood has been sustainably extracting the finest Aquilaria malaccensis using time-honored traditional methods, supporting social actions and providing a positive impact on the local community.

Jalali Agarwood and Firmenich share the same vision of responsibility. Because they inherited thousands of mature trees, for every one cut down, Jalali Agarwood plants twenty that will be left untouched for the future generations.

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

ANOKHA means "EXCEPTIONAL" in Indian language.

Aquilaria malaccensis variety has been first registered by Firmenich for use in Perfumery in 2018.

OUD ASSAFI™
969406

OUD

LEATHERY

ESSENTIAL OIL

Aquilaria malaccensis



CAS NUMBER	0094350-09-1
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

OUD ASSAFI™, also known as Oud Assam, is recognized as the most precious Oud in the world.

This exclusive quality has been prized for centuries for its animalic, woody and spicy notes.

Actually the most leathery and animalic Oud profile, OUD ASSAFI™ is elegantly woody and extremely ambery.

PERFUMERY USAGE

Although the region of Sylhet in Bangladesh, on the border with Assam, is the historical birthplace of Oud, this is the first time that an extract from the variety Aquilaria malaccensis is registered for use in Perfumery.

Firmenich created 3 captivating specialties with OUD ASSAFI™ to enlarge the experience of the magic.

SOURCING

For several generations, our #NaturalsTogether partner Jalali Agarwood has been sustainably extracting the finest Aquilaria malaccensis using time-honored traditional methods, supporting social actions and providing a positive impact on the local community.

Jalali Agarwood and Firmenich share the same vision of responsibility. Because they inherited thousands of mature trees, for every one cut down, Jalali Agarwood plants twenty that will be left untouched for the future generations.



● Firmenich Main Sourcing Country

BANGLADESH

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dark wood.
OUD ASSAFI™ is Firmenich trademark for traditional OUD ASSAM, which means "extremely pure Oud" in Arabic.
Aquilaria malaccensis variety has been first registered by Firmenich for use in Perfumery in 2018.

OUD FIRBEST
942575

OUD

WOODY

FIRBEST

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

Woody, animalic, sweet, balsamic.

A deep and well-balanced profile.

PERFUMERY USAGE

OUD FIRBEST is a composition of natural extracts and synthetic molecules (some of which are captive), subjected to a highly technological process.

It doesn't contain natural Oud, and therefore is not subject to CITES agreements.

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

In response to the regulations on natural extracts or to a creative need, Firmenich has developed FIRBEST. These specialties contain naturals but NOT the named ingredient.

OUD MALEKI
283526

OUD

NATURAL SPECIALTY



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody and animalic.

Very strong and long-lasting, especially regarding the typical woody animalic facet of Oud.

PERFUMERY USAGE

Firmenich created 3 captivating specialties with OUD ASSAFI™ to enlarge the experience of the magic.

SOURCING

For several generations, our #NaturalsTogether partner Jalali Agarwood has been sustainably extracting the finest Aquilaria malaccensis using time-honored traditional methods, supporting social actions and providing a positive impact on the local community.

Jalali Agarwood and Firmenich share the same vision of responsibility. Because they inherited thousands of mature trees, for every one cut down, Jalali Agarwood plants twenty that will be left untouched for the future generations.

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

MALEKI means "IMPERIAL" in Arabic.

Aquilaria malaccensis variety has been first registered by Firmenich for use in Perfumery in 2018.

OUD SAMRAT
283527

OUD

NATURAL SPECIALTY



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, ambery, oriental, animalic.

Very intense, warm and ambery.

PERFUMERY USAGE

Firmenich created 3 captivating specialties with OUD ASSAFI™ to enlarge the experience of the magic.

SOURCING

For several generations, our #NaturalsTogether partner Jalali Agarwood has been sustainably extracting the finest Aquilaria malaccensis using time-honored traditional methods, supporting social actions and providing a positive impact on the local community.

Jalali Agarwood and Firmenich share the same vision of responsibility. Because they inherited thousands of mature trees, for every one cut down, Jalali Agarwood plants twenty that will be left untouched for the future generations.

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

SAMRAT means "IMPERIAL" in Indian language.

Aquilaria malaccensis variety has been first registered by Firmenich for use in Perfumery in 2018.

PATCHOULI HEART SFE
970929

WOODY

LEATHERY

SFE

Pogostemon cablin



CAS NUMBER	0008014-09-3
REACH NUMBER	01-2119967775-18
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Woody, balsamic, earthy, camphor.
Firmenich offers the beauty and strength of Patchouli notes, without sesquiterpenes parts.

PERFUMERY USAGE

PATCHOULI HEART SFE can be used in masculine and feminine compositions up to 10%.
The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Patchouli oil is one of the top 5 essential oils Firmenich uses, in volume. Indonesia is the leading producer, also providing the highest quality. In this country, Firmenich is engaged with its #NaturalsTogether partner, who possesses a unique local footprint & network, on a 10 years roadmap to drive a sustainable patchouli supply chain in various regions of Indonesia.
Firmenich and its partner are currently working directly with cooperatives and distillers. The program offer them an alternative inclusive business model with agricultural training, a floor and fair price mechanism with guarantee of purchase to ensure continuous interest for them to grow Patchouli.
Reorganization of the supply chain and re-distribution of the value has led to a significant increase of income for farmers while ensuring full traceability of oils.
Furthermore, the project focused on social actions like the funding of a kindergarten in Kotayasa, Central Java.



Firmenich Main Sourcing Country
INDONESIA

Sourcing countries
GUATEMALA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried leaves.

PEPPER BLACK ABS PG
974644

SPICY

ANIMALIC

ABSOLUTE

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Piper nigrum



OLFACTIVE DESCRIPTION

Spicy, fresh, peppery, woody, dry and slightly animalic.

Peppery irritant notes are detected by the trigeminal nerve. This typical Black Pepper extract contains lower levels of these notes, reinforcing freshness on top.

PERFUMERY USAGE

PEPPER BLACK ABS PG is used in Fine Fragrance and Body Home Care to give a warm long-lasting black pepper signature.



Firmenich Main Sourcing Country

INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
	■	■	■	■							

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried berries.

PEPPER SICHUAN SFE
974611

SPICY

GREEN

SFE

Zanthoxylum schinifolium



CAS NUMBER	0102242-62-6
REACH NUMBER	
FEMA NUMBER	4754

OLFACTIVE DESCRIPTION

Different from any other ingredients of the Pepper botanical family, Pepper Sichuan brings to mind the citrus facets of Petitgrain, while the metallic effect gives a tingling sensation.

A unique, complex and pure spicy profile.

Extracted directly from the berries by Supercritical CO2 Extraction in Firmenich Grasse facility, PEPPER SICHUAN SFE offers all the assets linked to this type of extraction: pure and clean profile, very close to the natural raw material.

PERFUMERY USAGE

A trendy ingredient widely used in many perfumery successes.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country
CHINA

● Sourcing countries
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■				

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried berries.
This ingredient is both convenient for perfumery and flavor applications.

PEPPER WHITE SFE
974635

SPICY

ANIMALIC

SFE

Piper nigrum



CAS NUMBER	0008006-82-4
REACH NUMBER	
FEMA NUMBER	2852

OLFACTIVE DESCRIPTION

Spicy, animalic, peppery.
The White Pepper profile is typically more animalic.

The precision of the CO2 extraction enhances the deep warm notes.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Firmenich Main Sourcing Country
VIETNAM

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■		

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried berries.

PERIPLOCA EO 10 TEC
971653

GOURMAND
ESSENTIAL OIL

Periploca sepium



CAS NUMBER	1155405-59-6
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

A sweet, warm, gourmand, vanillic and almond-like ingredient.

The profile may have aspects of Mimosa, Cassie, Heliotrope and Orchid.

A light natural green cucumber note on top with basmati rice and sandalwood creaminess underneath.

PERFUMERY USAGE

Standard dosage:
- 0.02% for Body and Home Care applications.
- Up to 0.5% for Fine Fragrance applications.

Color-stable.



● Firmenich Main Sourcing Country
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Firmenich processes dried Periploca roots by Steam distillation to obtain the essential oil.

Results of Firmenich Natural Ingredients Innovation Center's, stability tests confirmed a good color stability versus Vanillin.

PERU BALSAM EO
971717

BALSAMIC

AMBERY

ESSENTIAL OIL

CAS NUMBER	0008007-00-9
REACH NUMBER	
FEMA NUMBER	2117

Myroxylon balsamum



OLFACTIVE DESCRIPTION

Balsamic, vanilla like, cinnamom, leathery.
The olfactive profile is rich, sweet, and deeply ambery.

PERFUMERY USAGE

Considered to be a fixative, it is used particularly with ambery, leathery and vanilla notes.

SOURCING

Peru balsam is a gum extracted with specific care from a tree growing only in El Salvador.
This traditional and exceptional production is threatened by very low prices and deforestation issues.

With its Joint Venture and #NaturalsTogether partner Nelixia; Firmenich has developed a Deep Roots program with a local cooperative of farmers.
The program guarantees harvesters a market security at a fair price, while ensuring best harvest and agricultural practices.

Nelixia has also especially improved harvesting conditions and safety of farmers.
This shall secure their profession for next generations and the longevity of the unique traditional harvest and extraction of Peru Balsam.



● Firmenich Main Sourcing Country
EL SALVADOR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■									

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: balsam.
This ingredient is both convenient for perfumery and flavor applications.

PERU BALSAM RES
971716

BALSAMIC

AMBERY

RESINOID

CAS NUMBER	0008007-00-9
REACH NUMBER	
FEMA NUMBER	2117

Myroxylon balsamum



OLFACTIVE DESCRIPTION

The olfactive profile is rich, sweet, and deeply ambery.

PERFUMERY USAGE

Considered to be a fixative, it is used particularly with ambery, leathery and vanilla notes.

SOURCING

Peru balsam is a gum extracted with specific care from a tree growing only in El Salvador.
This traditional and exceptional production is threatened by very low prices and deforestation issues.

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The program guarantees harvesters a market security at a fair price, while ensuring best harvest and agricultural practices.

Nelixia has also especially improved harvesting conditions and safety of farmers.
This shall secure their profession for next generations and the longevity of the unique traditional harvest and extraction of Peru Balsam.



● Firmenich Main Sourcing Country
EL SALVADOR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■									

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: balsam.
2 kg of Peru balsam to produce 1 Kg of Resinoid.
This ingredient is both convenient for perfumery and flavor applications.

PETITGRAIN OIL
972085

GREEN

FLORAL

ESSENTIAL OIL

CAS NUMBER	0008014-17-3
REACH NUMBER	
FEMA NUMBER	2855

Citrus aurantium



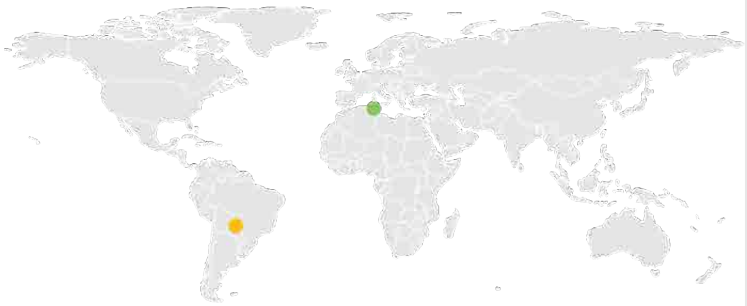
OLFACTIVE DESCRIPTION

Green, floral, orange flower-like.

More floral, orange flower and neroli-like, but less green than the Paraguay origin.

PERFUMERY USAGE

It is especially used with floral, white flowers and orange blossom accords.



Firmenich Main Sourcing Country
TUNISIA

Sourcing countries
PARAGUAY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■					

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: twigs and leaves and historically, immature fruits (small grain.. in french "petit grain").
Standard yield: 0.4-0.6%.

PETITGRAIN PARAGUAY EO
972064

GREEN
FLORAL
ESSENTIAL OIL

CAS NUMBER	0008014-17-3
REACH NUMBER	01-2120748358-44
FEMA NUMBER	2855

Citrus aurantium



OLFACTIVE DESCRIPTION

Green, floral, fruity, citrus, leaf.
Petitgrain from Paraguay has typical green notes.

PERFUMERY USAGE

It is especially used with floral, white flowers and orange blossom accords.

SOURCING

Petitgrain is cultivated by very small farmers in the poorest area of Paraguay.

This is a very traditional cultivation (at least 80 years old) that is passed down in families from generation to generation.



● Firmenich Main Sourcing Country
PARAGUAY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■							■	■	■

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: twigs and leaves and historically, immature fruits (small grain.. in french "petit grain").
Standard yield: 0.4-0.6%.
This ingredient is both convenient for perfumery and flavor applications.

PINE NEEDLE ABS
973814

WOODY

BALSAMIC

ABSOLUTE

CAS NUMBER	0008023-99-2
REACH NUMBER	
FEMA NUMBER	2906

Pinus sylvestris



OLFACTIVE DESCRIPTION

Balsamic, sweet, spicy, resinous.

Very pleasant and pine-like, it is reminiscent of a Mediterranean forest.

PERFUMERY USAGE

PINE NEEDLE ABS is used in Fine Fragrance and Body Home Care with fresh balsamic and aromatic accords.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
								■	■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: needles.

PINE NEEDLE ABS VULCAIN
973817

LEATHERY

WOODY

VULCAIN (PYROGENIZED)

Pinus sylvestris



CAS NUMBER	0008023-99-2
REACH NUMBER	
FEMA NUMBER	2906

OLFACTIVE DESCRIPTION

Balsamic and sweet.

Some top notes remaining from the absolute keep the characteristic effect of Mediterranean.

A pine profile with a gourmand note of Pine Nut and leathery effects due to pyrogenation.

The Pyrogenation process sublimates the original note by adding an intense and warm leathery effect together with a radiant dry-down.

Most of the time in Perfumery, the aim is to preserve top notes, freshness, volatile and raw material fidelity. With the Pyrogenation, the target is opposite: heavy, pyrogenized and leathery notes are sought.

PERFUMERY USAGE

The VULCAIN range (Pyrogenized) is developed by Firmenich Natural Ingredients Innovation Center and offers a collection of wider and more intense notes than those of the original extracts.

They provide a technical solution in the range of leathery notes with a great olfactory potential, and thus a use at very low dosage.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
								■	■	■	

PROCESS

VULCAIN is the name of Firmenich Pyrogenation - A controlled and monitored creation of pyrogenized molecules during a specific heating process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: needles.
In Ancient Rome and Hellenic religion, VULCAIN is the god of fire, including the fire of volcanoes.

PINK PEPPER BRAZIL SFE
911583

☐ SPICY

SFE

Schinus terebinthifolius



CAS NUMBER	0949495-68-5
REACH NUMBER	01-0000020130-91
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Spicy, peppery, citrus, woody.

Pink Peppers SFE's are sharp, spicy, peppery, fresh and aromatic.

Brazilian quality is more peppery, terpenic and aromatic, but less fresh than Reunion.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country

BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried berries.

PINK PEPPER EO
974606

SPICY
ESSENTIAL OIL

Schinus terebinthifolius



CAS NUMBER	0949495-68-5
REACH NUMBER	01-2120737161-64
FEMA NUMBER	

OLFACTIVE DESCRIPTION

The essential oil is terpenic with pine and woody facets.

PERFUMERY USAGE

Pink Pepper offers top-note as well as middle-note.

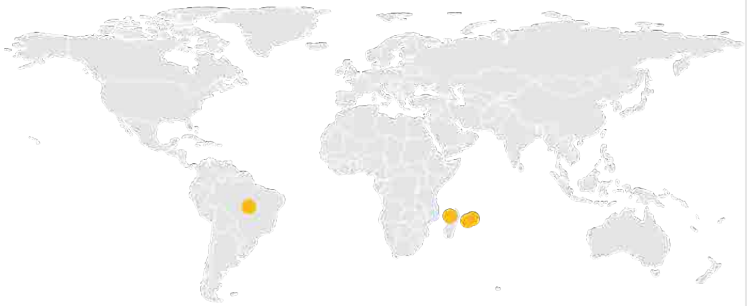
SOURCING

This Pink Pepper is mainly sourced from Brazil. Firmenich also purchases a part of it from the Reunion Island.

In Brazil, the production of Pink Pepper only appeared in the late 90's. At the beginning, production was mainly relying on wild harvest but cultivation rose due to the industry's expectations.
Cultivation is consequently recent and is done by small and medium landholders mainly for the food industry.

In Reunion & Mauritius Islands, Firmenich is sourcing Pink Pepper from its #NaturalsTogether partner.

Firmenich is the main actor of Pink Pepper in the Flavor & Fragrance industry, and has developed historic relationships with its suppliers to ensure a stable and high quality supply on a long term basis.



Sourcing countries
BRAZIL - MADAGASCAR - MAURITIUS - REUNION

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried berries.
Yield : 4 – 6%
20kg app of berries for 1kg of EO

PINK PEPPER WW SFE
911579

SPICY

SFE

Schinus terebinthifolius



CAS NUMBER	0949495-68-5
REACH NUMBER	01-0000020130-91
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Spicy, peppery, citrus, woody.
Pink Peppers SFE's are sharp, spicy, peppery, fresh and aromatic.

PERFUMERY USAGE

Brings vibration and boost heat notes.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

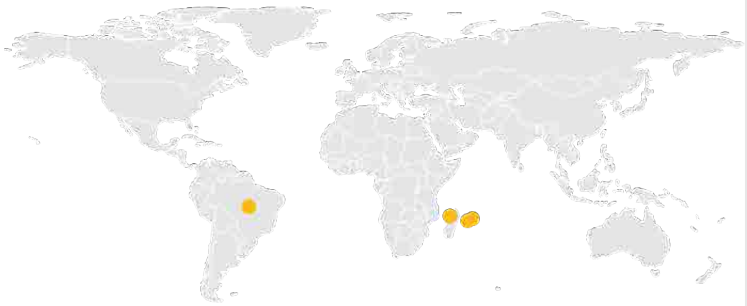
SOURCING

In Reunion & Mauritius Islands, Firmenich is sourcing Pink Pepper from its #NaturalsTogether partner.

On these islands, providing one of the highest qualities of pink pepper for fragrances, the berry is not cultivated but grows wild. The pickers harvest it on wild lands with machetes and bags.

As there are many pickers, collectors play an important role gathering the berries from all of them.
Once collected, the fresh pink pepper is sold to the exporters who dry it and send it to Firmenich.

Firmenich is the main actor of Pink Pepper in F&F and has developed historic relationships with its suppliers to ensure a stable and high quality supply on a long term basis.



Sourcing countries

BRAZIL - MADAGASCAR - MAURITIUS - REUNION

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■						

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: dried berries.

ROSE ABS MOROCCO TYPE
220658

FLORAL

ROSE

ABSOLUTE

Rosa damascena



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Floral, rosy, honey, fruity, licorous, slighty animalic.

Variations of floral, spicy rose, more or less sweet.

Moroccan origin is more sweet and floral while Turkish origin is more spicy and animalic.

PERFUMERY USAGE

Used in Fine Fragrance to gives a sweet floral rosy note. Very complex and long-lasting.

SOURCING

This extract is a blend of two famous rose sourcing: Morocco and Turkey.

In Morocco, Firmenich #NaturalsTogether partner cultivates Rosa Damascena on its own lands at Kelaat M'gouna which ensures a control of the supply and high qualities of roses extracts.

In Turkey, Firmenich work with its #NaturalsTogether partner consists in a reflection about the economic balance of the flower price, an integrated production and a traditional production in villages.
In this country, usually, because of the important distances between collection points and factories, rose flowers start to ferment in the bags before distillation, giving Turkish rose oil a distinct "jam" facet which differentiates from Bulgarian notes freshness.



Sourcing countries

BULGARIA - MOROCCO - TURKEY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
350 flowers app. harvested in 1 Kg.
2 000 flowers app. harvested per hour per person.
300 000 flowers app. to produce 1 Kg of absolute.
800 kg of flowers are necessary to obtain 1 Kg of absolute.

ROSE BULGARIA EO
979489

FLORAL

ROSE

ESSENTIAL OIL

Rosa damascena



CAS NUMBER	0008007-01-0
REACH NUMBER	
FEMA NUMBER	2989

OLFACTIVE DESCRIPTION

Floral, fresh, rosy, watery, green, spicy.

Typical floral rose oil note.

PERFUMERY USAGE

ROSE BULGARIA EO can be used to give a spectacular and very long-lasting fresh floral rosy note.



Firmenich Main Sourcing Country

BULGARIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
3 500 kg of flowers for 1 Kg of EO.
42 million of rose petals app for 1 kg of EO.
This ingredient is both convenient for perfumery and flavor applications.

ROSE CENTIFOLIA FIRABS
942621

FLORAL

ROSE

FIRABS

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

Inspired by the delicate profile of the fresh flower of Rosa centifolia.
It triggers an olfactive memory of the delicate petal, the flower on its stem.

PERFUMERY USAGE

The process is a Co-Extraction of natural and synthetic ingredients. The natural part contains Rose centifolia concrete sourced in Morocco.
It helps impart the natural feeling and evaporation profile to the formula.

SOURCING

This extract is a blend of two famous rose sourcing: France and Morocco. Rose harvesting is a deep-seating tradition in South of France and in this region, Firmenich is one of the largest purchasers of Rose Centifolia. Firmenich has been at the core of the renewal of Rose de Mai in the South of France this last five years. To secure producers and assure them to purchase their entire crop, Firmenich has decided to establish long-term contracts (5 to 7 years) with rose farmers. When needed, Firmenich is also supporting them with prefinancing. The network of agricultural partners enables to secure a third of the flowers production originating from Grasse area and to achieve perfect traceability. In Morocco, Firmenich #NaturalsTogether partner is fully integrated for Rosa Centifolia and cultivates the flower in Tiddas region, where several hectares are dedicated for its production.



Sourcing countries
FRANCE - MOROCCO - TURKEY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

FIRABS is a range of specialties which contain the natural named ingredient.
Extracted part: flowers.
300 flowers app. harvested in 1 Kg.
200 000 flowers app. to produce 1 Kg of absolute.
600 kg of flowers are necessary to obtain 1 Kg of absolute.

ROSE CENTIFOLIA PAYS ABS
979686

FLORAL

ROSE

ABSOLUTE

CAS NUMBER	0008007-01-0
REACH NUMBER	
FEMA NUMBER	2988

Rosa centifolia



OLFACTIVE DESCRIPTION

Floral, green, spicy, fruity, sweet, honey like.
Rare elixir, very sensual, deeply rich and floral, it evokes all values of luxury. Compared to Rosa damascena, Rosa centifolia is sweeter, and honey-like.

PERFUMERY USAGE

Used in Fine Fragrance, it gives a sweet floral rosy note with honey undertones. Very complex and long-lasting. Used in all kind of applications, this exquisite absolute embodies the essence of a tradition. Through its Naturals Center of Excellence in Grasse, the historical birthplace of perfumery, Firmenich has played a central role in the revival of Rose de Mai cultivation and extraction in the region over the past five years.

SOURCING

Rose harvesting is a deep-seating tradition in South of France where Firmenich is one of the largest purchasers. In May, flowers are handpicked early in the morning and daily brought to Firmenich extraction site in Tourrettes. In the 2000's Rose Centifolia was slowly disappearing from Grasse as locals were not receiving enough financial resources. Firmenich has been at the core of the renewal of Rose de Mai these last 5 years. To secure producers and assure them to purchase their entire crop, Firmenich has established long-term contracts. When needed, Firmenich is supporting them with prefinancing. The network of agricultural partners enables to secure a third of the Grasse flowers production and to achieve perfect traceability.



Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
300 flowers app. harvested in 1 Kg.
2 000 flowers app. harvested per hour per person.
200 000 flowers app. to produce 1 Kg of absolute.
600 kg of flowers are necessary to obtain 1 Kg of absolute.

ROSE DAMASCENA ABS TYPE
220622

FLORAL

ROSE

ABSOLUTE

Rosa damascena



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Floral, rosy, honey, fruity, licorous, slighty animalic.

Variations of floral, spicy rose, more or less sweet.

Moroccan origin is more sweet and floral while Turkish origin is more spicy and animalic.

PERFUMERY USAGE

Used in Fine Fragrance to gives a sweet floral rosy note. Very complex and long-lasting.

SOURCING

This extract is a blend of two famous rose sourcing: Morocco and Turkey.

In Morocco, Firmenich #NaturalsTogether partner cultivates Rosa Damascena on its own lands at Kelaat M'gouna which ensures a control of the supply and high qualities of roses extracts.

In Turkey, Firmenich work with its #NaturalsTogether partner consists in a reflection about the economic balance of the flower price, an integrated production and a traditional production in villages.
In this country, usually, because of the important distances between collection points and factories, rose flowers start to ferment in the bags before distillation, giving Turkish rose oil a distinct "jam" facet which differentiates from Bulgarian notes freshness.



Sourcing countries

BULGARIA - MOROCCO - TURKEY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
350 flowers app. harvested in 1 Kg.
2 000 flowers app. harvested per hour per person.
300 000 flowers app. to produce 1 Kg of absolute.
800 kg of flowers are necessary to obtain 1 Kg of absolute.

ROSE EO
979692

FLORAL

ROSE

ESSENTIAL OIL

CAS NUMBER	0008007-01-0
REACH NUMBER	
FEMA NUMBER	2989

Rosa damascena



OLFACTIVE DESCRIPTION

Typical Rose Oil note: floral, fresh, rosy, watery, green, spicy, slightly animalic.
Turkish origin brings spicy, animalic notes.

PERFUMERY USAGE

ROSE EO can be used to give a spectacular and very long-lasting fresh floral rosy note.

SOURCING

This extract is a blend of two famous rose sourcing: Turkey and Bulgaria.
In Turkey, Firmenich work with its #NaturalsTogether partner consists in a reflection about the economic balance of the flower price, an integrated production and a traditional production in villages.

In Bulgaria, Firmenich is sourcing Rose extracts form its #NaturalsTogether partner who owns the most impressive distillation facilities of the country as well as a wide integrated plantation of roses and a remarkable network of farmers with long-term engagement.
Their rose fields are located in the village of Tarnichene at the foothills of the Balkan Old mountain at approximate altitude of 500 meters.
Together, Firmenich and its partner are setting up in-depth discussions about the flower picker topic, which is a central focus for the future of this extraordinary product: better working conditions, possibility to provide work outside harvest period, creation of loyalty among gypsy communities from year to year.



● Sourcing countries
BULGARIA - TURKEY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
3 500 kg of flowers for 1 Kg of EO.
42 million of rose petals app for 1 kg of EO.
This ingredient is both convenient for perfumery and flavor applications.

ROSE MOROCCO ABS
979195

FLORAL

ROSE

ABSOLUTE

Rosa damascena



CAS NUMBER	0008007-01-0
REACH NUMBER	
FEMA NUMBER	2988

OLFACTIVE DESCRIPTION

Floral, rosy, honey, fruity, animalic.

Rose absolutes offer a variation of floral, spicy rose, more or less sweet, animalic or fruity according to origins.

PERFUMERY USAGE

Used in Fine Fragrance to gives a sweet floral rosy note. Very complex and long-lasting.

SOURCING

Since the 40's, Rosa Damascena is picked and extracted in south Morocco around the M'Goun and Daddes rivers.

Rose was traditionally grown here in hedges around the gardens, mostly used as dried buds and also incorporated in powder in the "henna" recipe for its cosmetic properties.

The Moroccan rose absolute has a distinct smell from the Bulgarian and Turkish qualities.

In Morocco, Firmenich #NaturalsTogether partner cultivates Rosa Damascena on its own lands at Kelaat M'gouna which ensures a control of the supply and high qualities of roses extracts.



Firmenich Main Sourcing Country

MOROCCO

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				●	●						

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
350 flowers app. harvested in 1 Kg.
2 000 flowers app. harvested per hour per person.
300 000 flowers app. to produce 1 Kg of absolute.
800 kg of flowers are necessary to obtain 1 Kg of absolute.

ROSE OIL TYPE
220605 MF

FLORAL

ROSE

ESSENTIAL OIL

Rosa damascena



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Floral, rosy, honey, fruity.

The more honey-like commercial version.

Moroccan origin is more sweet and floral while Turkish origin is more spicy and animalic.

PERFUMERY USAGE

ROSE OIL TYPE can be used to give a spectacular and very long-lasting fresh floral rosy note.



Sourcing countries

BULGARIA - TURKEY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
3 500 kg of flowers for 1 Kg of EO.
42 million of rose petals app for 1 kg of EO.

ROSE TURKISH ABS
979352

FLORAL

ROSE ABSOLUTE

Rosa damascena



CAS NUMBER	0008007-01-0
REACH NUMBER	
FEMA NUMBER	2988

OLFACTIVE DESCRIPTION

Floral, rosy, honey, fruity, licorous, animalic.
Turkish origin brings spicy and animalic notes.

PERFUMERY USAGE

Used in Fine Fragrance to gives a sweet floral rosy note.
Very complex and long-lasting.

SOURCING

Turkey has been the main producer of Rosa Damascena for quite a few years, with a crop that usually is somewhat larger than in Bulgaria.
Turkey started rose extraction in the 1920's with people emigrating from Bulgaria after independence.
The successful growing area is around the city of Isparta, north of Antalya, where dozens of villages have been growing roses.

Because of the competition of Bulgarian rose oil, Turkish producers have given priority to extraction producing concrete and absolute, both products are produced on a large scale. Usually, because of the important distances between collection points and factories, rose flowers start to ferment in the bags before distillation, giving Turkish rose oil a distinct "jam" facet which differentiates from Bulgarian notes freshness.

Firmenich work with its #NaturalsTogether partner consists in a reflection about the economic balance of the flower price, an integrated production and a traditional production in villages.



● Firmenich Main Sourcing Country
TURKEY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■						

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
350 flowers app. harvested in 1 Kg.
300 000 flowers app. to produce 1 Kg of absolute.
800 kg of flowers are necessary to obtain 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

ROSEMARY SFE
978969

AROMATIC

WOODY

SFE

CAS NUMBER	0008000-25-7
REACH NUMBER	
FEMA NUMBER	2992

Rosmarinus officinalis



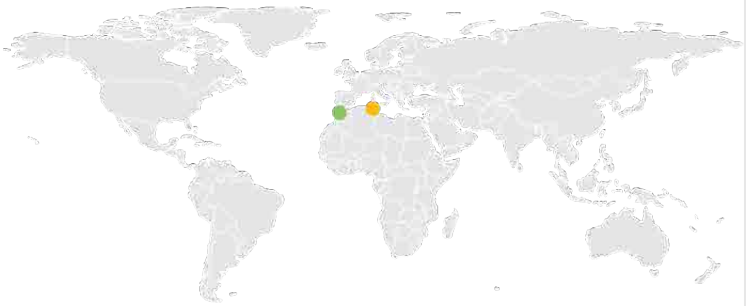
OLFACTIVE DESCRIPTION

Rosemary has a fresh, woody, aromatic odor, very balsamic and herbal.

More resinous and less camphoraceous than the Essential oil.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country
MOROCCO

● Sourcing countries
TUNISIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■						

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and leaves.
This ingredient is both convenient for perfumery and flavor applications.

SANDALWOOD OIL TYPE NAT
184268

WOODY

SANDALWOOD

NATURAL SPECIALTY

CAS NUMBER

REACH NUMBER

FEMA NUMBER



OLFACTIVE DESCRIPTION

SANDALWOOD OIL TYPE NAT takes its inspiration from the iconic Mysore Sandalwood, also known as the "royal tree" in the Mysore district of Karnataka, India.

A thousand sensations, among which soft creamy facets, warm and sweet balsamic notes. Its rich and dry woody undertones, slightly spiced-up, reminds us of the Indian treasure.

Created around DREAMWOOD™, our latest breakthrough captive ingredient from white biotechnology, this natural specialty is designed for pure performance.

PERFUMERY USAGE

100% natural, it offers the rich effect of DREAMWOOD™, and delivers all the rewards of a modern ingredient.

Cost efficient, SANDALWOOD OIL TYPE NAT is an endless source of inspiration for fragrance compositions in all kinds of applications.

A Firmenich captive ingredient, DREAMWOOD™ opens new creative territories and SANDALWOOD OIL TYPE NAT is one of the best examples.

SOURCING

Featuring the best of science and nature, SANDALWOOD OIL TYPE NAT contains both DREAMWOOD™ from white biotechnology and natural extracts like Santalum album essential oil from our #NaturalsTogether partner in Australia.

PROCESS

Well balanced association of ingredients, some of which are captives, blended together to create an inspiring specialty.
The composition may be a unique technical solution to create natural reconstitutions. They are the result of a close collaboration between Firmenich perfumers and specialists from our Natural Ingredients Center of Expertise.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

About DREAMWOOD™
Inspired by the iconic Mysore sandalwood, it offers mystical, creamy olfactive warmth. 100% natural, 100% RC and ultimately biodegradable. As demonstrated through rigorous laboratory testing, it can also bring cosmetic benefits.

SESAME SFE ABS
982089

GOURMAND

SFE

Sesamum indicum



CAS NUMBER	0008008-74-0
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Toasted bread and cereal odor.

SESAME SFE ABS elegantly enhances and boosts gourmand and warm notes bringing incredible volume to compositions.

PERFUMERY USAGE

It perfectly fits applications that need high solubility.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country
INDIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds.
Additional process: Absolute.

STAR ANISE SFE
911558

SPICY

GOURMAND

SFE

Illicium verum



CAS NUMBER	0068952-43-2
REACH NUMBER	
FEMA NUMBER	2096

OLFACTIVE DESCRIPTION

Star anise has an aromatic and spicy odor, characteristic of anethol.

Very gourmand, this particularly clean and noble quality (SFE) helps to impart an elegant, warm note.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Firmenich Main Sourcing Country

CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■					■	■	■		

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: seeds.
This ingredient is both convenient for perfumery and flavor applications.

STYRAX EO
983551

AMBERY

BALSAMIC

ESSENTIAL OIL

Liquidambar styraciflua



CAS NUMBER	0008024-01-9
REACH NUMBER	
FEMA NUMBER	3037

OLFACTIVE DESCRIPTION

The profile is rich, sweet, balsam-like, floral and spicy.

PERFUMERY USAGE

Styrax is known to be used as a fixative.
It enhances compositions with chypre and oriental notes.

SOURCING

Traditional harvest areas being over-exploited, Firmenich decided to work with Nelixia through their Joint Venture, to develop a new responsible supply chain.

In El Paraíso region, farmers, grouped in a cooperative, mainly harvested pine and coffee until a disease stroke pine and decreased their income.

As Styrax is already planted to provide shade for coffee, Firmenich initiated a Deep Roots program. It guarantees market security and fair price, while ensuring quality and sustainable practices through training.

This approach provides better income for harvesters and full traceability.



● Firmenich Main Sourcing Country
HONDURAS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
Standard yield: 15-20%.

STYRAX OIL TYPE
220576

AMBERY

BALSAMIC

ESSENTIAL OIL

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Liquidambar styraciflua



OLFACTIVE DESCRIPTION

The profile is rich, sweet, balsam-like, floral and spicy.
This essential oil contains cinnamon and almond notes.

PERFUMERY USAGE

Styrax is known to be used as a fixative.
It enhances compositions with chypre and oriental notes.

SOURCING

Traditional harvest areas being over-exploited, Firmenich decided to work with Nelixia through their Joint Venture, to develop a new responsible supply chain.

In El Paraíso region, farmers, grouped in a cooperative, mainly harvested pine and coffee until a disease stroke pine and decreased their income.

As Styrax is already planted to provide shade for coffee, Firmenich initiated a Deep Roots program. It guarantees market security and fair price, while ensuring quality and sustainable practices through training.

This approach provides better income for harvesters and full traceability.



● Firmenich Main Sourcing Country
HONDURAS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■		

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
Standard yield: 15-20%.

STYRAX RES
983834

AMBERY

BALSAMIC

RESINOID

CAS NUMBER	0008046-19-3
REACH NUMBER	01-2120762881-47
FEMA NUMBER	3037

Liquidambar styraciflua



OLFACTIVE DESCRIPTION

The profile is rich, sweet, balsam-like, floral and spicy.
The resinoid reinforces the spicy and cinnamic effect.

PERFUMERY USAGE

Styrax is known to be used as a fixative.
It enhances compositions with chypre and oriental notes.

SOURCING

Traditional harvest areas being over-exploited, Firmenich decided to work with Nelixia through their Joint Venture, to develop a new responsible supply chain.

In El Paraíso region, farmers, grouped in a cooperative, mainly harvested pine and coffee until a disease stroke pine and decreased their income.

As Styrax is already planted to provide shade for coffee, Firmenich initiated a Deep Roots program. It guarantees market security and fair price, while ensuring quality and sustainable practices through training.

This approach provides better income for harvesters and full traceability.



● Firmenich Main Sourcing Country
HONDURAS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
1 Kg of Styrax balsam to produce 1 Kg of Resinoid.
This ingredient is both convenient for perfumery and flavor applications.

STYRAX RES NEUTRALIZED
983835

AMBERY

BALSAMIC

RESINOID

CAS NUMBER	0008046-19-3
REACH NUMBER	
FEMA NUMBER	3037

Liquidambar styraciflua



OLFACTIVE DESCRIPTION

The profile is rich, sweet, fresh, balsam-like, floral and spicy.
The resinoid reinforces the spicy and cinnamic effect.

PERFUMERY USAGE

Styrax is known to be used as a fixative.
It enhances compositions with chypre and oriental notes.

SOURCING

Traditional harvest areas being over-exploited, Firmenich decided to work with Nelixia through their Joint Venture, to develop a new responsible supply chain.

In El Paraíso region, farmers, grouped in a cooperative, mainly harvested pine and coffee until a disease stroke pine and decreased their income.

As Styrax is already planted to provide shade for coffee, Firmenich initiated a Deep Roots program. It guarantees market security and fair price, while ensuring quality and sustainable practices through training.

This approach provides better income for harvesters and full traceability.



● Firmenich Main Sourcing Country
HONDURAS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
1 Kg of Styrax balsam to produce 1 Kg of Resinoid.

STYRAX RES VULCAIN
983586

LEATHERY

AMBERY

VULCAIN (PYROGENIZED)

CAS NUMBER	0008046-19-3
REACH NUMBER	
FEMA NUMBER	3036

Liquidambar styraciflua



OLFACTIVE DESCRIPTION

Soft but not sweet, with light animalic note and enhanced cinnamic effect. The Pyrogenation process sublimates the original note with an intense warm leathery effect and a radiant dry-down. Usually in Perfumery, the aim is to preserve top notes, freshness, and raw material fidelity. With the Pyrogenation, the target is opposite: heavy, pyrogenized and leathery notes are sought.

PERFUMERY USAGE

Known as a fixative, Styrax enhances compositions with chypre and oriental notes.
The VULCAIN range (Pyrogenized) is developed by Firmenich Natural Ingredients Innovation Center and offers a collection of wider and more intense notes than those of the original extracts. They provide a technical solution in the range of leathery notes with a great olfactory potential, and thus a use at very low dosage.

SOURCING

Traditional harvest areas being over-exploited, Firmenich decided to work with Nelixia through their Joint Venture, to develop a new responsible supply chain. In El Paraíso region, farmers, grouped in a cooperative, mainly harvested pine and coffee until a disease stroke pine and decreased their income. As Styrax is already planted to provide shade for coffee, Firmenich initiated a Deep Roots program. It guarantees market security and fair price, while ensuring quality and sustainable practices through training. This approach provides better income for harvesters and full traceability.



● Firmenich Main Sourcing Country
HONDURAS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■	■	■	■	■

PROCESS

VULCAIN is the name of Firmenich Pyrogenation - A controlled and monitored creation of pyrogenized molecules during a specific heating process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: gum.
In Ancient Rome and Hellenic religion, VULCAIN is the god of fire, including the fire of volcanoes.

TAGETE MADAGASCAR EO
984596

FRUITY

AROMATIC

ESSENTIAL OIL

CAS NUMBER	0008016-84-0
REACH NUMBER	
FEMA NUMBER	3040

Tagetes minuta



OLFACTIVE DESCRIPTION

The olfactive profile is fresh, sweet, floral and slightly fruity.

Tagete has a characteristic fruity, lemon, apple and pink grapefruit scent.

PERFUMERY USAGE

TAGETE MADAGASCAR EO is used in Fine Fragrance and Body Home Care to give a natural exotic fruity effect.



● Firmenich Main Sourcing Country
MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
		■	■	■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: stems and leaves.
This ingredient is both convenient for perfumery and flavor applications.

TANGERINE CITRONOVA® FAB
926524

CITRUS

CITRONOVA®

Citrus reticulata



CAS NUMBER	0008016-85-1
REACH NUMBER	
FEMA NUMBER	3041

OLFACTIVE DESCRIPTION

Heavy, peely, floral, fishy.

PERFUMERY USAGE

.



● Firmenich Main Sourcing Country
ITALY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■								■	■

PROCESS

CITRONOVA® is a specific and Firmenich proprietary citrus distillation to decrease the amount of Limonene.
The different fractions obtained are re-assembled by our specialists to offer a unique profile.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

TANGERINE CRAVO OIL 4X
984692

CITRUS

CITRUS DISTILLATION

Citrus reticulata



CAS NUMBER	0008016-85-1
REACH NUMBER	
FEMA NUMBER	3041

OLFACTIVE DESCRIPTION

Juicy, ripe, pulpy, fresh, peely.

PERFUMERY USAGE

.



Firmenich Main Sourcing Country

ITALY

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■								■	■

PROCESS

Distillation consists in separating the components or substances in a liquid mixture through selective boiling and condensation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: the fruit's peel.
This ingredient is both convenient for perfumery and flavor applications.

TARRAGON EO
940119

AROMATIC

ESSENTIAL OIL

Artemisia dracunculus

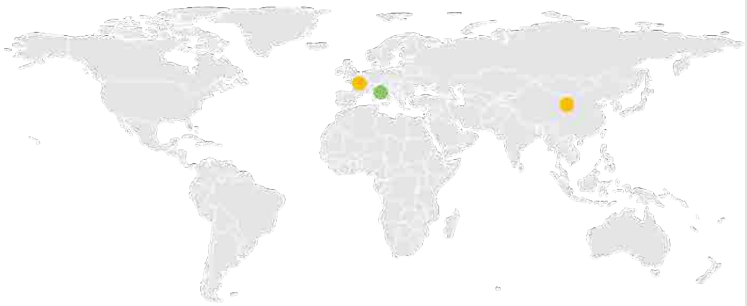


CAS NUMBER	0008016-88-4
REACH NUMBER	
FEMA NUMBER	2412

OLFACTIVE DESCRIPTION

The olfactive profile is fresh, herbaceous, spicy and balsamic.

It is also reminiscent of Anise, due to the presence of estragole



● Firmenich Main Sourcing Country
ITALY

● Sourcing countries
CHINA - FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■			

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves, flowers and stems.
This ingredient is both convenient for perfumery and flavor applications.

TEA BLACK SFE
987717

AROMATIC

GOURMAND

SFE

Camellia sinensis



CAS NUMBER	0068916-73-4
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

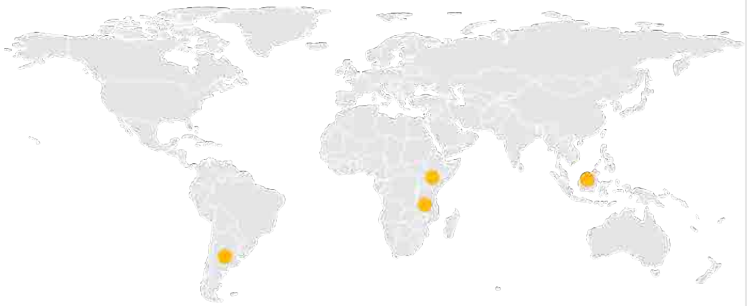
Typical black tea, dry leafy, hay, tobacco, smoked and astringent notes.

The fresh and long-lasting spicy notes are enhanced.

PERFUMERY USAGE

TEA BLACK SFE brings a smoky and woody dimension to compositions.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Sourcing countries

ARGENTINA - INDONESIA - KENYA - MALAWI

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This ingredient is both convenient for perfumery and flavor applications.

TEA GREEN SFE ORG
987725

AROMATIC

GOURMAND

SFE

Camellia sinensis



CAS NUMBER	0068916-73-4
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Aromatic, green and refreshing notes, very close to the raw material.

PERFUMERY USAGE

TEA GREEN SFE ORG brings a fresh, aromatic and green effect. It can be used with aromatic and gourmand notes.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■	■	■	■			

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This ingredient is both convenient for perfumery and flavor applications.

TEA JASMINE SFE
987004

FLORAL

GREEN

SFE

Camellia sinensis



CAS NUMBER	0068916-73-4
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

TEA JASMINE SFE is a fresh floral green ingredient.

The perfect balance between fresh green tea leaves and jasmine providing sweetness and softness.

PERFUMERY USAGE

It blends harmoniously with citrus and sparkling notes, as well as with all types of woods, musks, and ambers. TEA JASMINE SFE can be used within feminine, genderless, or Cologne style scents.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



Firmenich Main Sourcing Country

CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				●	●	●	●	●			

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: green tea leaves, scented with common jasmine flowers.
This ingredient is both convenient for perfumery and flavor applications.

TEA WHITE CHINA SFE
987721

AROMATIC

FRUITY

SFE

Camellia sinensis



CAS NUMBER	0068916-73-4
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Aromatic, fruity, herbaceous.

A delicately aromatic green and fruity tones, tinted with slightly floral-fresh facets.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.



● Firmenich Main Sourcing Country
CHINA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
			■	■	■	■	■	■			

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
This ingredient is both convenient for perfumery and flavor applications.

TOLU BALSAM RES TYPE
988054

BALSAMIC

AMBERY

RESINOID

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Myroxylon balsamum



OLFACTIVE DESCRIPTION

Sweet, balsamic, vanilla-like, cinnamic, phenolic.

The olfactive profile is fresh, light, peppery, musky, woody and balsamic.

Among the ambery and spicy scents, it offers sweet, vanilla-like notes.

PERFUMERY USAGE

It brings a warm and sweet effect.

TOLU BALSAM RES TYPE offers a good solubility in application.



● Firmenich Main Sourcing Country
COLOMBIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■							

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: resin (balsam).

TOLU RES TYPE NAT
220951

BALSAMIC

AMBERY

RESINOID

CAS NUMBER

REACH NUMBER

FEMA NUMBER

Myroxylon balsamum



OLFACTIVE DESCRIPTION

Sweet, balsamic, vanilla-like, cinnamic, phenolic.

The olfactive profile is fresh, light, peppery, musky, woody and balsamic.

Among the ambery and spicy scents, it offers sweet, vanilla-like notes.

PERFUMERY USAGE

It brings a warm and sweet effect.



● Firmenich Main Sourcing Country
COLOMBIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■							

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: resin (balsam).
This ingredient is both convenient for perfumery and flavor applications.

TONKA BEAN ABS
988195

GOURMAND

BALSAMIC

ABSOLUTE

Dipteryx odorata



CAS NUMBER	0008046-22-8
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Tonka bean extracts offer deep warm and sweet notes. The olfactive profile is reminiscent of caramel, almond and vanilla with hints of clove.

PERFUMERY USAGE

TONKA BEAN ABS gives a very nice natural effect in the fern, amber and oriental notes.
Coumarin is responsible of the pleasant odor of the beans, which led the perfume industry to label these extracts in the "Gourmand" family.

SOURCING

Tonka beans comes from the wild harvest of the Dipteryx odorata fruits, deep in the Amazon forest of Venezuela and Brazil. Firmenich essentially sources beans in North Brazil, where production is something quite recent for Kayapo communities. The opportunity to build with these communities a responsible sourcing has led Firmenich to implement at source an ambitious program in Para region. Beans purchase takes place through Kayapo associations ensuring direct relationship with harvesters. With fair pricing and guaranteed market, Firmenich contributes to the global agro-forestry balance, the best way to prevent local deforestation. Firmenich also provided trainings on beans harvest and drying best practices to Kayapo, improving this steps yield and consequently communities' incomes. This direct sourcing has enabled to reach 100% of traceability.



● Firmenich Main Sourcing Country
BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■				

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
180 kg of fruit (18 kg of dry beans) to produce 1 kg of absolute.

TONKA BEAN RES
988198

GOURMAND

BALSAMIC

RESINOID

CAS NUMBER	0008046-22-8
REACH NUMBER	
FEMA NUMBER	

Dipteryx odorata



OLFACTIVE DESCRIPTION

Tonka bean extracts offer deep warm and sweet notes. The olfactive profile is reminiscent of caramel, almond and vanilla. Resinoid is more fatty but less coumarin.

PERFUMERY USAGE

TONKA BEAN RES gives a very nice natural effect in the fern, amber and oriental notes.
Coumarin is responsible of the pleasant odor of the beans, which led the perfume industry to label these extracts in the "Gourmand" family.

SOURCING

Tonka beans comes from the wild harvest of the Dipteryx odorata fruits, deep in the Amazon forest of Venezuela and Brazil. Firmenich essentially sources beans in North Brazil, where production is something quite recent for Kayapo communities. The opportunity to build with these communities a responsible sourcing has led Firmenich to implement at source an ambitious program in Para region. Beans purchase takes place through Kayapo associations ensuring direct relationship with harvesters. With fair pricing and guaranteed market, Firmenich contributes to the global agro-forestry balance, the best way to prevent local deforestation. Firmenich also provided trainings on beans harvest and drying best practices to Kayapo, improving this steps yield and consequently communities' incomes. This direct sourcing has enabled to reach 100% of traceability.



● Firmenich Main Sourcing Country
BRAZIL

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
					■	■	■				

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: beans.
10 500 beans (2g / bean) app. to produce 1 kg of absolute.

TREEMOSS FIRBEST 50 TEC
942626

EARTHY – MOSSY

FIRBEST



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, mossy, resinous, earthy and powdery.
Persistent with very good tenacity.

Through the range of FIRBEST MOSSES, perfumers will rediscover the olfactory profile of old-time traditional Mosses.

PERFUMERY USAGE

TREEMOSS FIRBEST 50 TEC contains no trace of natural Treemoss.

The maximum recommended dosage is 2%.

- Firbest Mosses are used at a ratio of 1/1 versus natural Moss extracts.
- Clearer in color than traditional natural extracts, it can be used in a greater number of applications.
- The use of carrier ensures perfect solubility and is convenient in automated workshops.

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

In response to the regulations on natural extracts or to a creative need, Firmenich has developed FIRBEST. These specialties contain naturals but NOT the named ingredient.

TREEMOSS RES FIRBEST
942638

EARTHY - MOSSY

FIRBEST



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Woody, mossy, earthy, powdery with a very good tenacity.

Through the range of FIRBEST MOSSES, perfumers will rediscover the olfactory profile of old-time traditional Mosses.

PERFUMERY USAGE

TREEMOSS RES FIRBEST contains no trace of natural Treemoss.

The maximum recommended dosage is 2%.

- Firbest Mosses are used at a ratio of 1/1 versus natural Moss extracts.
- Clearer in color than traditional natural extracts, it can be used in a greater number of applications.
- The use of carrier ensures perfect solubility and is convenient in automated workshops.

PROCESS

FIRABS and FIRBEST are the result of a harmonious synergy between our perfumers, our natural specialists and our scientists, these ingredients comes from a Co-extraction of natural and synthetic ingredients of which some are captives.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

In response to the regulations on natural extracts or to a creative need, Firmenich has developed FIRBEST. These specialties contain naturals but NOT the named ingredient.

VALERIAN EO
989909

WOODY

ANIMALIC

ESSENTIAL OIL

CAS NUMBER	0008008-88-6
REACH NUMBER	
FEMA NUMBER	3100

Valeriana officinalis



OLFACTIVE DESCRIPTION

The olfactive is very powerful.
It combines warm, woody, balsamic together with animalic notes.

PERFUMERY USAGE

VALERIAN EO can be used in trace to enhanced animalic notes (agarwood accords).



● Firmenich Main Sourcing Country
POLAND

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■	■	■	

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: roots.
This ingredient is both convenient for perfumery and flavor applications.

VANILLA BOURBON SFE ABS
990044

GOURMAND

SFE

Vanilla planifolia



CAS NUMBER	0008024-06-4
REACH NUMBER	
FEMA NUMBER	3105

OLFACTIVE DESCRIPTION

Sweet vanillin, woody, creamy.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Firmenich is one of the first buyers of Vanilla bean in the world, a critical and strategic raw material that Firmenich mainly sources from Madagascar, where 80% of the world production is coming. Firmenich is partnering with one of the main actors of Vanilla in Madagascar, its #NaturalsTogether member and historical supplier for 10 years, to increase the sourcing sustainability. The responsible supply strategy relies on a cooperative, created in SAVA area and supported by Firmenich and its partner for 8 years, and associations of farmers in Andapa. In the villages actions are numerous: drilling drinking water wells, constructing classrooms for a school...Farmers received trainings on best farming practices for vanilla and agriculture has been diversified with new cash crops providing additional revenue. Firmenich is also an active member of the Sustainable Vanilla Initiative (SVI), a voluntary industry initiative.



● Firmenich Main Sourcing Country
MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■	■	■	

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: Cured vanilla pods.

VANILLA PLANIFOLIA ABS
990045

GOURMAND

ABSOLUTE

Vanilla planifolia



CAS NUMBER	0008024-06-4
REACH NUMBER	
FEMA NUMBER	3105

OLFACTIVE DESCRIPTION

Gourmand, vanilla, phenolic, leathery, woody. Vanilla planifolia is one of the basic compounds in a perfumer's palette.
Appreciated for its phenolic and sweet profile, perfumers love to focus on the artistic evocation: profound, sensual, animalic and at the same time gourmet.

PERFUMERY USAGE

Very complex vanilla profile with bean, woody and phenolic facets. It enhances the gourmand bottom note in floral and oriental compositions.

SOURCING

Firmenich is one of the largest buyer of Vanilla beans in the world, a critical and strategic raw material mainly sourced from Madagascar (accounting for 80% of the world production). Firmenich is partnering with one of the main actors of Vanilla in Madagascar, its #NaturalsTogether member and historical supplier for 10 years, to increase the sourcing sustainability.
The responsible supply strategy relies on a cooperative, created in SAVA area and supported by Firmenich, its partner for 8 years and associations of farmers in Andapa. In the villages actions are numerous: drilling drinking water wells, constructing classrooms for a school... Farmers received trainings on best farming practices for vanilla and agriculture has been diversified with new cash crops providing additional revenue.
Firmenich is also an active member of the Sustainable Vanilla Initiative (SVI), a voluntary industry initiative.



Firmenich Main Sourcing Country

MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						●	●	●	●	●	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: cured vanilla beans.

VANILLA PLANIFOLIA SFE
990098

GOURMAND

SFE

Vanilla planifolia



CAS NUMBER	0008024-06-4
REACH NUMBER	
FEMA NUMBER	3105

OLFACTIVE DESCRIPTION

Gourmand, phenolic, leathery, woody. Vanilla planifolia is one of the basic compounds in a perfumer's palette. Appreciated for its phenolic and sweet profile, perfumers love to focus on the artistic evocation: profound, sensual, animalic and at the same time gourmet.

PERFUMERY USAGE

Very addictive, it enhances the gourmand bottom note in floral and oriental fragrances.
The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Firmenich is one of the largest buyer of Vanilla beans in the world, a critical and strategic raw material mainly sourced from Madagascar (accounting for 80% of the world production). Firmenich is partnering with one of the main actors of Vanilla in Madagascar, its #NaturalsTogether member and historical supplier for 10 years, to increase the sourcing sustainability.
The responsible supply strategy relies on a cooperative, created in SAVA area and supported by Firmenich, its partner for 8 years and associations of farmers in Andapa. In the villages actions are numerous: drilling drinking water wells, constructing classrooms for a school... Farmers received trainings on best farming practices for vanilla and agriculture has been diversified with new cash crops providing additional revenue.
Firmenich is also an active member of the Sustainable Vanilla Initiative (SVI), a voluntary industry initiative.



● Firmenich Main Sourcing Country
MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■	■	■	

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: cured vanilla pods.
This ingredient is both convenient for perfumery and flavor applications.

VANILLA PLANIFOLIA SFE ABS
990070

GOURMAND

SFE

Vanilla planifolia



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Gourmand, phenolic, leathery, woody, very strong vanilla bean texture. A basic compounds in a perfumer's palette appreciated for its phenolic and sweet profile. Perfumers love to focus on its artistic evocation: profound, sensual, animalic and at the same time gourmet.

PERFUMERY USAGE

Excellent solubility, very addictive, it enhances the gourmand bottom note in floral and oriental fragrances. The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Firmenich is one of the largest buyer of Vanilla beans in the world, a critical and strategic raw material mainly sourced from Madagascar (accounting for 80% of the world production). Firmenich is partnering with one of the main actors of Vanilla in Madagascar, its #NaturalsTogether member and historical supplier for 10 years, to increase the sourcing sustainability.
The responsible supply strategy relies on a cooperative, created in SAVA area and supported by Firmenich, its partner for 8 years and associations of farmers in Andapa. In the villages actions are numerous: drilling drinking water wells, constructing classrooms for a school... Farmers received trainings on best farming practices for vanilla and agriculture has been diversified with new cash crops providing additional revenue.
Firmenich is also an active member of the Sustainable Vanilla Initiative (SVI), a voluntary industry initiative.



● Firmenich Main Sourcing Country
MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
						■	■	■	■	■	

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: cured vanilla pods.

VANILLA TAHITENSIS SFE
989947

GOURMAND

SWEET

SFE

CAS NUMBER	0953789-39-4
REACH NUMBER	
FEMA NUMBER	3105

Vanilla tahitensis



OLFACTIVE DESCRIPTION

Vanilla, floral, creamy, sweet, anisic and gourmand.

Vanilla tahitensis clearly stands out from vanillas of other origins, quite simply because its aromatic profile is so different. It is the only vanilla to boost such high anisic compounds levels (aldehyde, alcohol and acid).

The almond-sweet smell calls to mind the traditional "dragée".

It is virtually impossible to confuse Vanilla tahitensis with another variety.



Firmenich Main Sourcing Country

PAPUA NEW GUINEA

PERFUMERY USAGE

Its unique floral, creamy and sweet notes bring a real differentiating profile from the other vanillas botanical varieties.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								■

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: cured vanilla pods.
This ingredient is both convenient for perfumery and flavor applications.

VANILLA TAHITENSIS SFE ABS
990068

GOURMAND

SWEET

SFE

CAS NUMBER	0953789-39-4
REACH NUMBER	
FEMA NUMBER	3105

Vanilla tahitensis



OLFACTIVE DESCRIPTION

Vanilla, sweet, gourmand, anisic.

Vanilla tahitensis clearly stands out from Vanillas of other origins, quite simply because its aromatic profile is so different. It is the only vanilla to boost such high anisic compounds levels (aldehyde, alcohol and acid) and such a low level of vanillin.

Its unique floral, creamy and sweet notes, the epitome of confectionery, complement the other vanillas that exist in perfumery.

It is virtually impossible to confuse Vanilla tahitensis with another variety.



● Firmenich Main Sourcing Country

PAPUA NEW GUINEA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■								■

PERFUMERY USAGE

Best solubility in Firmenich's product range.

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: cured vanilla pods.
This ingredient is both convenient for perfumery and flavor applications.

VANILLIN EX BEAN 95
990103

GOURMAND

SFE

Vanilla planifolia



CAS NUMBER	0008024-06-4
REACH NUMBER	
FEMA NUMBER	3105

OLFACTIVE DESCRIPTION

Sweet, gourmand, phenolic, rich and powdery, the olfactive profile offers a typical and natural bean effect with a subtle caramel note.

PERFUMERY USAGE

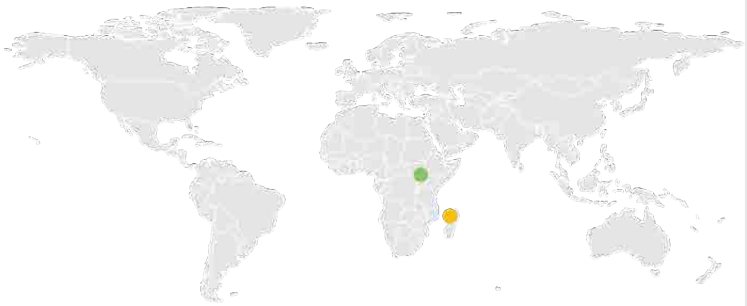
It boosts the natural vanilla effect in composition.
The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

In Uganda, Firmenich second country of sourcing, Firmenich is working with its longtime supplier, member of #NaturalsTogether. In 2008, a tripartite partnership began between them, Firmenich and DANIDA (official development cooperation agency of Denmark) to ensure long term and high quality vanilla production.

This program and continuous action have allowed to: increase farmers' incomes thanks to farming best practices trainings, provide a greater access to savings and loans (helping farmers to develop business) and improve food security while developing new sources of revenues with a mixed farming model associating Vanilla with Coffee and other activities.

With an NGO, Firmenich supplier has created numerous campaigns for health awareness and prevention. Recently, to solve some crisis issues, vanilla By Laws (legal framework) have been established and the security of farmers has been improved with guards patrol.



● Firmenich Main Sourcing Country
UGANDA

● Sourcing countries
MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■			■	■	■	■	■	

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: cured vanilla pods.
This ingredient is both convenient for perfumery and flavor applications.

VETIVER HAITI EO
991154

WOODY

AMBERY

ESSENTIAL OIL

Vetiveria zizanoïdes



CAS NUMBER	0008016-96-4
REACH NUMBER	01-2120119716-55
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Woody, earthy, rooty, smoky, nutty and powdery notes.

PERFUMERY USAGE

VETIVER HAITI EO can be used in composition to enhance woody and leathery notes.

SOURCING

Vetiver grows in many countries (Indonesia, India, Paraguay...) but the best quality comes from Les Cayes, South West of Haiti.

Firmenich is mainly sourcing its oil from this area from its #NaturalsTogether partner. The small farmers cultivating, harvesting and replanting vetiver are organized in cooperatives.

Firmenich is partnering with its long time supplier to develop a responsible sourcing program. This program is contributing to secure the supply in high quality oil while supporting farmers and cooperatives through the purchase of Ecocert certificated vetiver Roots.

Actions are also undertaken for improving access to health care and education. Firmenich is highly involved in the construction and the sustainability of a school since 2012. Firmenich supplier has decided to provide free health care for member of cooperatives while we partnered with Essilor in 2015 for free eye-check and glasses distribution.



● Firmenich Main Sourcing Country
HAITI

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■						

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: roots.
Standard yield: 1-1.5%.

VETIVER OIL TYPE
220716

WOODY

AMBERY

ESSENTIAL OIL

Vetiveria zizanoïdes



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Typical vetiver profile: woody, earthy, rooty, smoky, leathery, nutty and powdery notes.

This profile is more smoky and leathery but less nutty.

PERFUMERY USAGE

VETIVER OIL TYPE can be used in composition to enhance woody and leathery notes.



● Firmenich Main Sourcing Country
INDONESIA

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: roots.

VETIVER SFE
991252

WOODY

AMBERY

SFE

Vetiveria zizanoïdes



CAS NUMBER	0008016-96-4
REACH NUMBER	
FEMA NUMBER	

OLFACTIVE DESCRIPTION

Woody, earthy, rooty, smoky, nutty and powdery notes.
A complete and precise olfactive profile: the earthy, rooty and precious woody notes are clean and fresh.

PERFUMERY USAGE

The SFE process preserves all the facets and the natural profile identity to guarantee a high purity extract.

SOURCING

Vetiver grows in many countries (Indonesia, India, Paraguay...) but the best quality comes from Les Cayes, South West of Haiti.

Firmenich is mainly sourcing its oil from this area from its #NaturalsTogether partner. The small farmers cultivating, harvesting and replanting vetiver are organized in cooperatives.

Firmenich is partnering with its long time supplier to develop a responsible sourcing program. This program is contributing to secure the supply in high quality oil while supporting farmers and cooperatives through the purchase of Ecocert certificated vetiver Roots.

Actions are also undertaken for improving access to health care and education. Firmenich is highly involved in the construction and the sustainability of a school since 2012. Firmenich supplier has decided to provide free health care for member of cooperatives while we partnered with Essilor in 2015 for free eye-check and glasses distribution.



Firmenich Main Sourcing Country

HAITI

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
■	■	■	■	■	■						

PROCESS

Supercritical CO2 Extraction is a technology in which carbon dioxide, put beyond its critical point (73 bars and 30°C), becomes a supercritical fluid with special properties.
The extraction carried out at a low temperature preserves the natural profile identity of the raw material.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: roots.
This ingredient is both convenient for perfumery and flavor applications.

VIOLET LEAF EGYPT ABS
991725

GREEN

FLORAL

ABSOLUTE

Viola odorata



CAS NUMBER	0008024-08-6
REACH NUMBER	
FEMA NUMBER	3110

OLFACTIVE DESCRIPTION

Green, floral, slightly orange flower-like notes.

Intensely dark green and possessing a very powerful and peculiar odor (truly green-leaf), but with an indisputable floral and delicate note which makes it immediately reminiscent of violets in a bouquet.

PERFUMERY USAGE

It blends very well with tuberose, narcissus, tea leaf absolute, clary sage absolute, estragon, cumin, basil, and with synthetic ingredients.

SOURCING

Around 90% of Violet leaf extract are coming from Egypt. Firmenich mainly sources Violet leaves from this country and from France.

In Egypt, Firmenich is purchasing from its #NaturalsTogether partner who is working directly with farmers in the north of the country and on its own plantations. This supplier has developed an intercropping model with date tree and corn as it provides perfect shadows for violet growth.

Leaves are collected by Firmenich partner and extracted at their factory. Before being processed the violet leaf is stored during 24 hours, as leaves need to macerate to fully develop their olfactive characteristics.



● Firmenich Main Sourcing Country
EGYPT

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■	■	■	■	■	■	

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
1 800 Kg of leaves app. to produce 1 Kg of absolute.
This ingredient is both convenient for perfumery and flavor applications.

VIOLET LEAF PAYS ABS
991521

GREEN

FLORAL

ABSOLUTE

Viola odorata



CAS NUMBER	0008024-08-6
REACH NUMBER	
FEMA NUMBER	3110

OLFACTIVE DESCRIPTION

Green, vegetal, floral, waxy, slightly earthy with cucumber and melon effect. The ultimate refere green and floral long-lasting notes. It brings a h quality, watery, green and fruity facets in compo

PERFUMERY USAGE

In cosmetic applications, this extract brings a delicate "caring" effect. It blends very well with tuberose, narcissus, tea leaf absolute, clary sage absolute, estragon, cumin, basil, and with synthetic ingredients.

SOURCING

Firmenich mainly sources Violet leaves in Egypt and France, in the region of Grasse, called "Pays". Firmenich is one of the rare producers today to offer a 100% pure Pays origin absolute.

The first crops of Violet were started in the region of Grasse in 1875. Nowadays, growers' fields are located mainly in Tourettes Sur Loup and in the Var area.

Leaves are harvested in May-June and brought to Firmenich concrete processing facility in Tourettes for extraction, after a maceration of one day to fully develop their olfactive characteristics.

Promoting the "Pays" origin supports local farmers and encourages them to continue their cultures that otherwise could disappear within 5 years.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D
				■	■			■			

PROCESS

A primary extraction with volatile solvent on fresh or dry biomass yields to a Concrete or Resinoid. The Absolute is obtained via a second purification step in the process.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: leaves.
2 600 Kg of leaves app. to produce 1 Kg of absolute.
750 Kg of leaves app. harvested per day per person.

WINE LEES EO
927198

GOURMAND

ESSENTIAL OIL

Vitis vinifera



CAS NUMBER	0008016-21-5
REACH NUMBER	
FEMA NUMBER	2332

OLFACTIVE DESCRIPTION

Very powerful top note with an alcoholic and liquorous profile.

The undertone is wine-like, slightly sulfuric and fruity.

PERFUMERY USAGE

Associated with rose, WINE LEES EO boosts rosy profiles.



● Firmenich Main Sourcing Country
FRANCE

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: wine lees (grapes).
This ingredient is both convenient for perfumery and flavor applications.

YLANG EO
992470

FLORAL
ESSENTIAL OIL

Cananga odorata



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

The olfactive profile is rich, deep, and bright with hints of jasmine and neroli.

PERFUMERY USAGE

YLANG EO brings elegance, volume and originality. It is widely appreciated for its warm, exotic, round and feminine notes. Ylang Ylang I and Extra are used most of the time in Fine Fragrance applications, while II and III are rather used in technical perfumery.

SOURCING

Comoro Islands are the leading world producer of Ylang essential oil and Firmenich's primary sourcing.

In 2012, Firmenich supplier started a sustainable program with an NGO on Anjouan and Mohéli. Firmenich joined the program in 2014 to design a responsible sourcing with a focus on deforestation and supply chain restructuration.

With a client, Firmenich is also acting on the women pickers and distillers empowerment.
To improve livelihoods of smallholders, cooperatives have been created and trainings have been provided on farming, distillation or entrepreneurship.
Women received trainings on income diversification and ylang picking.
New distillation equipment and nurseries has been created to reduce deforestation. A health insurance has been set up and banking inclusion improved.



● Firmenich Main Sourcing Country
COMOROS

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
Standard yield: 0.4%.
30 000 flowers app. to produce 1 Kg of Essential oil.
One flower = 1.5 g.

YLANG OIL TYPE 220933

FLORAL

ESSENTIAL OIL

Cananga odorata



CAS NUMBER

REACH NUMBER

FEMA NUMBER

OLFACTIVE DESCRIPTION

Floral, powerful, sweet with spicy and exotic connotations.
The profile is bright with hints of jasmine and neroli but also animalic facets providing mystery and sensuality.

PERFUMERY USAGE

Commercial grade mostly used in technical perfumery composition.

SOURCING

Comoro Islands are the leading world producer of Ylang essential oil and Firmenich's primary sourcing.

In 2012, Firmenich supplier started a sustainable program with an NGO on Anjouan and Mohéli. Firmenich joined the program in 2014 to design a responsible sourcing with a focus on deforestation and supply chain restructuration.

With a client, Firmenich is also acting on the women pickers and distillers empowerment.
To improve livelihoods of smallholders, cooperatives have been created and trainings have been provided on farming, distillation or entrepreneurship.
Women received trainings on income diversification and ylang picking.
New distillation equipment and nurseries has been created to reduce deforestation. A health insurance has been set up and banking inclusion improved.



Sourcing countries

COMOROS - MADAGASCAR

CROP SEASON IN MAIN SOURCING COUNTRY

J	F	M	A	M	J	J	A	S	O	N	D

PROCESS

Obtained by distillation of the biomass with water, or steam.
The essential oil is physically separated from the aqueous phase by decantation.

The statements made on this page are indicative and not binding

DID YOU KNOW ?

Extracted part: flowers.
Standard yield: 0.4%
30 000 flowers app. to produce 1 Kg of Essential oil.
One flower = 1.5 g.

LEGAL DISCLAIMER

REGULATORY INFORMATION

Firmenich Global Regulatory Services (GRS) Team ensures compliance for Firmenich Fragrance Ingredients under relevant global regulations. This includes ingredients contained within Firmenich Specialty Bases.

Detailed information regarding the global registration status can be provided either by your usual GRS contact or through your sales representative at Firmenich. CAS numbers are provided as reference information.

With regard to REACH (EC Regulation 1907/2006), Firmenich automatically ensures the status of downstream users for all customers located in the European Economic Area.

For other customers or regions, Firmenich is willing to consider the coverage of downstream users under a specific agreement requiring provision of related information. The following address may be used in case of queries : clp.reach@firmenich.com

SAFETY AND HANDLING

For your guidance, typical % use ranges are provided in the Stability & Performance tables. These are provided for informational purposes only.

In addition to this, information regarding maximum safe use levels, based on Firmenich regulatory and safety evaluation, are provided in the Aromachemical Information Sheet and the IFRA certificate. All the products listed in the Firmenich Fragrance Ingredients Catalogue should be handled in accordance with the IFRA Code of Practice and in respect of the information provided in the Safety Data Sheet (SDS). These SDS and other regulatory documents are available on request from Firmenich.

COMPLIANCE WITH LAWS

The Buyer confirms its responsibility to comply with all applicable laws and regulations relating to the Seller's product.

Firmenich

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