



De Hekserij

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Sporstraat 57
8271 RG IJsselmuiden
The Netherlands

20152 - EO Clove bud

1Doc: All available data that is not in the SDS and that is not batch specific.
Version 1 | 2026-02-18

Identity

Product : Essential oil Clove bud [Etherische olie Kruidnagel nagel]
Code : 20152
INCI name : EUGENIA CARYOPHYLLUS BUD OIL
EC number : 904-912-8
CAS number EU : 84961-50-2
CAS number TSCA : 8000-34-8
FEMA number : 2323

Customs information

HS code : 3301 2911
Country of origin : Madagascar

Identity check

Appearance at RT : More and less viscous liquid
Colour : Colourless to orange
Odour : Spicy, Clove, Floral
Refractive index (20°C) : 1,5280 - 1,5380
Specific gravity (20°C) : 1,0420 - 1,0650

Additives

Antioxidants : None
Chelators : None
Solvents : None

Production / origin

Distillation of the dry clove of *Eugenia caryophyllus*.

Composition

Eugenol : 72 - 88 % GC(area%)
Beta caryophyllene : 2 - 14 % GC(area%)
Eugenyl acetate : 4 - 22 % GC(area%)

Physicochemical specification

Solubility in water : 2.3 g/l Temp.: 20 °C
Vapour pressure : 0,9 Pa
Melting point : -50 °C
Boiling point : 270 °C

Use and storage

Suitable in fragrance compositions for cosmetics, cleaning products and other fragranced products.
We do not sell products for use in oral care products, food, feed, tobacco, e-smoking or pharmaceuticals.
Keep dark and dry in a closed container. Hazardous (REACH/CLP), SDS available on request.

Allergens, EU Cosmetics Regulation

This product contains the following fragrance allergens as specified in the EU Cosmetics Regulation:
Fragrance ingredients restricted as potential allergens in the extended list amending ANNEX III of EUROPEAN COSMETIC REGULATION (EC) No1223/2009

*Total % in Perfume Compound determined by calculation (Direct add and Indirect from naturals/synthetics)

Ingredient Name	Cas Number(s)	%*
3-PROPYLIDENEPHTHALIDE	: 17369-59-4	: -
6-METHYL COUMARIN	: 92-48-8	: -
ACETYLCEDRENE	: 32388-55-9	: -
ALPHA-ISOMETHYL IONONE	: 127-51-5	: -
ALPHA-TERPINENE	: 99-86-5	: -
AMYL CINNAMAL	: 122-40-7	: -
AMYL SALICYLATE	: 2050-08-0	: -
AMYL CINNAMYL ALCOHOL	: 101-85-9	: -
ANETHOLE	: 104-46-1 4180-23-8	: -
ANISE ALCOHOL	: 105-13-5	: -
BENZALDEHYDE	: 100-52-7	: 0,002
BENZYL ALCOHOL	: 100-51-6	: 0,002
BENZYL BENZOATE	: 120-51-4	: 0,038
BENZYL CINNAMATE	: 103-41-3	: -
BENZYL SALICYLATE	: 118-58-1	: 0,004
BETA-CARYOPHYLLENE	: 87-44-5	: 7,203
CAMPHOR	: 76-22-2 21368-68-3 464-49-3 464-48-2	: -
CANANGA ODORATA FLOWER EXTRACTS	: 83863-30-3 8006-81-3 68606-83-7 93686-30-7	: -
CARVONE	: 99-49-0 6485-40-1 2244-16-8	: -
CEDRUS ATLANTICA BARK/LEAF/WOOD EXTRACTS	: 8023-85-6 92201-55-3	: -
CINNAMAL	: 104-55-2	: 0,003
CINNAMOMUM CASSIA LEAF OIL	: 8007-80-5 84961-46-6	: -
CINNAMOMUM ZEYLANICUM BARK OIL	: 8015-91-6 84649-98-9	: -
CINNAMYL ALCOHOL	: 104-54-1	: 0,001
CITRAL	: 5392-40-5 141-27-5 106-26-3	: -
CITRONELLOL	: 106-22-9 26489-01-0 1117-61-9 7540-51-4	: -
CITRUS AURANTIUM BERGAMIA PEEL OIL	: 8007-75-8 89957-91-5 68648-33-9 85049-52-1	: -
CITRUS AURANTIUM FLOWER OIL	: 72968-50-4 8028-48-6 8016-38-4	: -
CITRUS AURANTIUM PEEL OIL	: 68916-04-01 72968-50-4 97766-30-8 8028-48-6 8008-57-9	: -
CITRUS LIMON PEEL OIL	: 84929-31-7 8008-56-8	: -
COUMARIN	: 91-64-5	: -
DIMETHYL PHENYL ACETATE	: 151-05-3	: -
EUCALYPTUS GLOBULUS OIL	: 97926-40-4 8000-48-4	: -
EUGENIA CARYOPHYLLUS OIL	: 8000-34-8 8015-97-2 84961-50-2	: 100,0
EUGENOL	: 97-53-0	: 81,310

EUGENYL ACETATE	:	93-28-7			:	14,739
EVERNIA FURFURACEA (TREETMOSS) EXTRACT	:	90028-67-4			:	-
EVERNIA PRUNASTRI (OAKMOSS) EXTRACT	:	90028-68-5			:	-
FARNESOL	:	4602-84-0			:	-
GERANIOL	:	106-24-1			:	0,001
GERANYL ACETATE	:	105-87-3			:	-
HEXADECANOLACTONE	:	109-29-5			:	-
HEXAMETHYLINDANOPYRAN (GALAXOLIDE)	:	1222-05-5			:	-
HEXYL CINNAMAL	:	101-86-0			:	-
HYDROXYCITRONELLAL	:	107-75-5			:	-
ISOEUGENOL	:	97-54-1	5932-68-3	5912-86-7	:	-
ISOEUGENYL ACETATE	:	93-29-8			:	-
JASMINE OIL/EXTRACT (GRANDIFLORUM / OFFICINALE)	:	84776-64-7	90045-94-6 8024-43-9	8022-96-6	:	-
JUNIPERUS VIRGINIANA OIL	:	8000-27-9	85085-41-2		:	-
LAURUS NOBILIS LEAF OIL	:	8002-41-3	8007-48-5	84603-73-6	:	-
LAVANDULA OIL/ EXTRACT	:	91722-69-9	8022-15-9	93455-96-0	:	-
		93455-97-1	92623-76-2	84776-65-8		
		8000-28-0	90063-37-9			
LEMONGRASS OIL	:	8007-02-1	89998-16-3	91844-92-7	:	-
LIMONENE	:	138-86-3	7705-14-8 5989-54-8	5989-27-5	:	0,004
LINALOOL	:	78-70-6			:	0,010
LINALYL ACETATE	:	115-95-7			:	-
LIPPIA CITRIODORA ABSOLUTE (VERBENA ABSOLUTE)	:	8024-12-2	85116-63-8		:	-
MENTHA PIPERITA OIL	:	8006-90-4	84082-70-2		:	-
MENTHA VIRIDIS LEAF OIL	:	8008-79-5	84696-51-5		:	-
MENTHOL	:	89-78-1	1490-04-6 15356-60-2	2216-51-5	:	-
METHYL 2-OCTYNOATE	:	111-12-6			:	-
METHYL SALICYLATE	:	119-36-8			:	0,271
MYROXYLON PEREIRAE OIL/ EXTRACT (PERU BALSAM)	:	8007-00-9			:	-
NARCISSUS EXTRACT	:	90064-26-9	68917-12-4 90064-25-8	90064-27-0	:	-
PELARGONIUM GRAVEOLENS FLOWER OIL	:	90082-51-2	8000-46-2		:	-
PINENE	:	80-56-8	7785-70-8	127-91-3	:	0,004
		18172-67-3				
PINUS MUGO	:	90082-72-7			:	-
PINUS PUMILA	:	97676-05-6			:	-
POGOSTEMON CABLIN OIL	:	8014-09-3	84238-39-1		:	-
ROSE FLOWER OIL/EXTRACT	:	8007-01-0	90106-38-0	93334-48-6	:	-
		84696-47-9	84604-12-6	84604-13-7		
			92347-25-6			
ROSE KETONES	:	43052-87-5	23726-94-5	24720-09-0	:	-
		23696-85-7	57378-68-4	71048-82-3		
		23726-92-3	23726-91-2			
SALICYLALDEHYDE	:	90-02-8			:	-
SANTALOL	:	11031-45-1	115-71-9	77-42-9	:	-
SANTALUM ALBUM OIL	:	8006-87-9	84787-70-2		:	-
SCLAREOL	:	515-03-7			:	-
TERPINEOL	:	8000-41-7	98-55-5 586-81-2	138-87-4	:	0,002
TERPINOLENE	:	586-62-9			:	-
TETRAMETHYLACETYLOCTAHYDRO NAPHTHALENES (OTNE)	:	54464-57-2	54464-59-4 68155-67-9	68155-66-8	:	-
TRIMETHYLBENZENEPROPANOL	:	103694-68-4			:	-
TRIMETHYLCYCLOPENTENE METHYL PENTENOL	:	67801-20-1			:	-

TURPENTINE	:	9005-90-7	8006-64-2	8052-14-0	:	-
VANILLIN	:	121-33-5			:	0,024

These values are the typical maximum values, in rare cases these values can be higher.

This product contains the following additional ingredients that are listed in annex II - VI of the Cosmetic regulation (EC) No 1223/2009:

METHYL EUGENOL 93-15-2 : 0,071 % III / 102
 FURFURAL 98-01-1 : 0,109 III / 312

IFRA QRE

According to the IFRA standard (51th Amendment) this product is restricted in use. The following limits apply (calculated for the finished product):

IFRA Class	Maximum use level
1 Products applied to the lips.	: 0,0 %
2 Products applied to the axillae.	: 0.172 %
3 Products applied to the face/body using fingertips.	: 0,588 %
4 Products related to fine fragrances.	: 0,921 %
5A Products applied to the body using the hands (palms), primarily leave-on (Body lotion).	: 0,787 %
5B Products applied to the face using the hands (palms), primarily leave-on (Face moisturizer).	: 0,294 %
5C Products applied to the hands using the hands (palms), primarily leave-on (Hand cream).	: 0,588 %
5D Products applied to babies using the hands (palms), primarily leave-on (Baby cream, oil, talc).	: 0,096 %
6 Products with oral and lip exposure.	: 0,0 %
7A Rinse-off products applied to the hair with some hand contact.	: 0,588 %
7B Leave-on products applied to the hair with some hand contact.	: 0,588 %
8 Products with significant anogenital exposure (tampon).	: 0,096 %
9 Products with body and hand exposure, primarily rinse off.	: 0,921 %
10A Household products.	: 0,868 %
10B Household care products with mostly hand contact (household aerosol/spray products).	: 0,921 %
11A Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate without UV exposure.	: 0,096 %
11B Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate with potential UV exposure.	: 0,096 %
12 Other air care products not intended for direct skin contact, minimal or insignificant transfer to skin.	: 46,082 %

Please note that we advise using lower amounts of this material in specific cases. This can be based on the fact that certain applications should only contain a small amount of fragrance anyway, independent of the risks of the material itself.

IFRA - Limitations

This product contains the following substances that are listed in the IFRA standards (51th Amendment):

Benzyl alcohol 100-51-6 : 0,002 % Restricted
 Benzaldehyde 100-52-7 : 0,002 % Restricted

Cinnamic alcohol 104-54-1	: 0,001 %	Restricted
Cinnamic aldehyde 104-55-2	: 0,003 %	Restricted
Geraniol 106-24-1	: 0,001 %	Restricted
Benzyl salicylate 118-58-1	: 0,004 %	Restricted
Benzyl benzoate 120-51-4	: 0,038 %	Restricted
Methyl eugenol 93-15-2	: 0,071 %	Restricted
Eugenol 97-53-0	: 81,31 %	Restricted
Furfural 98-01-1	: 0,109 %	Restricted

Natural

This product is a natural aromatic raw material according to ISO 9235.

This product does not contain animal derived products, and can therefore be considered vegan.

Natural Index (acc. to ISO 16128) NI= 1

Natural Origin Index (acc. to ISO 16128) NOI= 1

Organic Index (acc. to ISO 16128) OI= 0

Animal testing

This raw material is in compliance with article 18 of the Cosmetics regulation (EC) No 1223/2009.

Disclaimer

All information in this document is to our best knowledge at the time of preparation, provided in good faith and believed to be accurate. It still may contain errors and may be incomplete.