



De Hekserij

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Spoorstraat 57
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The Netherlands

23045 - Musk ketone

1Doc: All available data that is not in the SDS and that is not batch specific.
Version 1 | 2025-12-03

Identity

Product : Musk ketone [Musk keton]
Code : 23045
INCI name : MUSK KETONE
EC number : 201-328-9
CAS number EU : 81-14-1
CAS number TSCA : 81-14-1

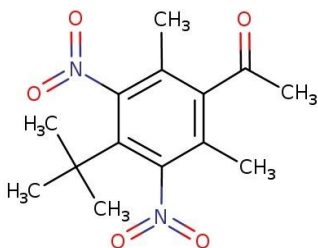
Customs information

HS code : 2914 7900
Country of origin : Batch specific.

Identity check

Appearance at RT : Solid powder
Colour : White to yellow
Odour : Musk like, Sweet, Powdery

Chemical formulation



Impurities

MUSK XYLENE : < 0,10 %

Additives

Antioxidants : None
Chelators : None
Solvents : None

Production / origin

Chemical synthesis.

Composition

MUSK KETONE : > 98 %

Physiochemical specification

Solubility in water : Insoluble
Solubility in ethanol : Soluble
Vapour pressure : 0,00069 Pa Temp.: 25 °C
Melting point : 135.5 °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.

Sales specification

Purity : > 98 %

Note: sales specification means typical values at time of analysis. Values are not guaranteed. Values can be different in certain batches and change after analysis.

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		: -
BENZYL ALCOHOL	:	100-51-6		: -
BENZYL BENZOATE	:	120-51-4		: -
BENZYL CINNAMATE	:	103-41-3		: -
BENZYL SALICYLATE	:	118-58-1		: -
BETA-CARYOPHYLLENE	:	87-44-5		: -
CAMPHOR	:	76-22-2	21368-68-3 464-48-2	464-49-3 : -
CANANGA ODORATA FLOWER EXTRACTS	:	83863-30-3	8006-81-3 93686-30-7	68606-83-7 : -
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		:	-	
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		:	-	
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	:	-
EUGENOL	:	97-53-0			:	-
EUGENYL ACETATE	:	93-28-7			:	-
EVERNIA FURFURACEA (TREETMOSS) EXTRACT	:	90028-67-4			:	-
EVERNIA PRUNASTRI (OAKMOSS) EXTRACT	:	90028-68-5			:	-
FARNESOL	:	4602-84-0			:	-
GERANIOL	:	106-24-1			:	-
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	8022-96-6	:	-
			8024-43-9			
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	5989-27-5	:	-
			5989-54-8			
LINALOOL	:	78-70-6			:	-
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	2216-51-5	:	-
			15356-60-2			
METHYL 2-OCTYNOATE	:	111-12-6			:	-
METHYL SALICYLATE	:	119-36-8			:	-
MYROXYLON PEREIRAE OIL/ EXTRACT (PERU BALSAM)	:	8007-00-9			:	-
NARCISSUS EXTRACT	:	90064-26-9	68917-12-4	90064-27-0	:	-
			90064-25-8			
PELARGONIUM GRAVEOLENS FLOWER OIL	:	90082-51-2	8000-46-2		:	-
PINENE	:	80-56-8	7785-70-8	127-91-3	:	-
		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	138-87-4	:
			586-81-2		
TERPINOLENE	:	586-62-9			:
TETRAMETHYLACETYLOCTAHYDRO NAPHTHALENES (OTNE)	:	54464-57-2	54464-59-4	68155-66-8	:
			68155-67-9		
TRIMETHYLBENZENEPROPANOL	:	103694-68-4			:
TRIMETHYLCYCLOPENTENE METHYL PENTENOL	:	67801-20-1			:
TURPENTINE	:	9005-90-7	8006-64-2	8052-14-0	:
VANILLIN	:	121-33-5			:

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:

MUSK XYLENE 81-15-2 : < 0,1 % III / 96
MUSK KETONE 81-14-1 : 100 % III / 97

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.	: 100 %
3 Products applied to the face/body using fingertips.	: 100 %
4 Products related to fine fragrances.	: 100 %
5A Products applied to the body using the hands (palms), primarily leave-on (Body lotion).	: 100 %
5B Products applied to the face using the hands (palms), primarily leave-on (Face moisturizer).	: 100 %
5C Products applied to the hands using the hands (palms), primarily leave-on (Hand cream).	: 100 %
5D Products applied to babies using the hands (palms), primarily leave-on (Baby cream, oil, talc).	: 100 %
6 Products with oral and lip exposure.	: 0,0 %
7A Rinse-off products applied to the hair with some hand contact.	: 100 %
7B Leave-on products applied to the hair with some hand contact.	: 100 %
8 Products with significant anogenital exposure (tampon).	: 100 %
9 Products with body and hand exposure, primarily rinse off.	: 100 %
10A Household products.	: 100 %
10B Household care products with mostly hand contact (household	: 100 %

aerosol/spray products).

- | | | |
|-----|--|---------|
| 11A | Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate without UV exposure. | : 100 % |
| 11B | Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate with potential UV exposure. | : 100 % |
| 12 | Other air care products not intended for direct skin contact, minimal or insignificant transfer to skin. | : 100 % |

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):

Musk Xylene 81-15-2	: < 0,1 %	Prohibited
Musk ketone 81-14-1	: 100 %	Specification*

*Musk xylene (CAS number 81-15-2), which has been prohibited for use in fragrance compounds for environmental reasons (vPvB), can be present in Musk ketone as an impurity. Musk ketone should only be used if it contains less than 0.1% of Musk xylene.

Natural

This product is not a natural aromatic raw material according to ISO 9235. The material is synthetic.

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

Natural Index (acc. to ISO 16128)	NI= 0
Natural Origin Index (acc. to ISO 16128)	NOI= 0
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.