De Hekserij

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Spoorstraat 57
8271 RG IJsselmuiden
The Netherlands

23184 - Aldehyde C9

1Doc: All available data that is not in the SDS and that is not batch specific.
Version 1 | 2025-11-19

Identity

Product	: Aldehyde C9
Code	: 23184
INCI name	: NONANAL
EC number	: 204-688-5
CAS number EU	: 124-19-6
CAS number TSCA	: 124-19-6
FEMA number	: 2782

Customs information

HS code	: 2912 1900
Country of origin	: United States

Identity check

Appearance at RT	: Liquid
Colour	: Colourless
Odour	: Aldehydic, Sweet, Orange
Refractive index (20°C)	: 1,423 - 1,427
Specific gravity (20°C)	: 0,822 - 0,830

Chemical formulation

Additives

Antioxidants	: None
Chelators	: None
Solvents	: None

Production / origin

Chemical synthesis.

Composition

NONANAL	: 97 - 100 %

Physiochemical specification

Solubility in water	: Insoluble. 101 mg/l at 20 °C
Log Kow	: 3.4
Vapour pressure	: 70 Pa
Melting point	: -18,8 °C
Boiling point	: 194,85 °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 pharmaceutics.
Keep dark and dry in a closed container. Hazardous (REACH/CLP), SDS available on request.

Performance in candles and other wax products

Concentration	: 0.04% (average) - 0.27% (max)
Stability	: Reasonably good
Cold wax	: Good
Burning	: Not good

Sales specification

Purity	: >= 97 %

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			-
AMYLCINNAMYL 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	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			:	-
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 7540-51-4	1117-61-9	:	-
CITRUS AURANTIUM BERGAMIA PEEL OIL	:	8007-75-8	89957-91-5 85049-52-1	68648-33-9	:	-
CITRUS AURANTIUM FLOWER OIL	:	72968-50-4	8028-48-6	8016-38-4	:	-
CITRUS AURANTIUM PEEL OIL	:	68916-04-01 8028-48-6	72968-50-4 8008-57-9	97766-30-8	:	-
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 (TREEMOSS) 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 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 93455-97-1 8000-28-0	8022-15-9 92623-76-2 90063-37-9	93455-96-0 84776-65-8	:	-
LEMONGRASS OIL	:	8007-02-1	89998-16-3	91844-92-7	:	-
LIMONENE	:	138-86-3	7705-14-8 5989-54-8	5989-27-5	:	-
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 15356-60-2	2216-51-5	:	-
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 90064-25-8	90064-27-0	:	-
PELARGONIUM GRAVEOLENS FLOWER OIL	:	90082-51-2	8000-46-2		:	-
PINENE	:	80-56-8	7785-70-8	127-91-3	:	-

		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 84696-47-9	90106-38-0 84604-12-6 92347-25-6	93334-48-6 84604-13-7	: -
ROSE KETONES	:	43052-87-5 23696-85-7 23726-92-3	23726-94-5 57378-68-4 23726-91-2	24720-09-0 71048-82-3	: -
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	: -
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			: -

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

Besides the obligation to list the allergens on the label in case these exceed a certain level there are no restrictions of use.

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 ampount of fragrance anyway, independent of the risks of the material itself.

IFRA - Limitations

This product does not contain substances that are listed in the IFRA standards (51th Amendment).

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.