

Safety data for 1,8-cineole



[Glossary](#) of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: limonene oxide, cajeputol, 1,8-epoxy-p-menthane, 1,8-oxido-p-menthane, eucalyptol, eucalyptole, 1,3,3-trimethyl-2-oxabicyclo[2,2,2]octane, cineol, cineole

Use: flavouring, perfumery, constituent of eucalyptus oil

Molecular formula: $C_{10}H_{18}O$

CAS No: 470-82-6

EC No:

Physical data

Appearance: colourless liquid

Melting point: 2 C

Boiling point: 176 - 177 C

Vapour density:

Vapour pressure:

Specific gravity: 0.922

Flash point: 49 C

Explosion limits:

Autoignition temperature:

Water solubility: insoluble

Stability

Stable. Flammable. Incompatible with acids, bases, strong oxidizing agents.

Toxicology

Harmful by ingestion. May be harmful by inhalation or through skin contact. May act as an irritant.

Toxicity data

(The meaning of any abbreviations which appear in this section is given [here.](#))

ORL-RAT LD50 2480 mg kg⁻¹

SCU-MUS LD50 50 mg kg⁻¹

IMS-GPG LDLO 2250 mg kg⁻¹

SCU-DOG LDLO 1500 mg kg⁻¹

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here.](#))

R10 R22.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here.](#))

UN No 1993. Hazard class 3. Packing group III.

Personal protection

Safety glasses, adequate ventilation.

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