

Safety data for acrylamide



[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: acrylic amide, ethylene carboxamide, 2-propenamide, propenoic acid amide, vinyl amide, propenamide, acrylamide monomer

Molecular formula: $\text{CH}_2=\text{CHCONH}_2$

CAS No: 79-06-1

EC No: 201-173-7

Physical data

Appearance: white crystalline chunks

Melting point: 84 - 86 C

Boiling point: 125C at 25 mm Hg

Specific gravity: 1.12

Vapour pressure:

Flash point: 84 C

Explosion limits:

Autoignition temperature:

Water solubility: moderate

Stability

Unstable. Do not heat above 50C. Explosive. Incompatible with acids, bases, oxidizing agents, reducing agents, iron and iron salts, copper, aluminium, brass, free radical initiators. Air sensitive. Hygroscopic.

Toxicology

Toxic. Possible human carcinogen. Possible teratogen. May cause heritable genetic damage. Readily absorbed through skin. Inhalation may be fatal. May cause CNS damage. May cause damage the effects of which become apparent only after a delay of several months or years. Skin, eye and respiratory irritant. OEL 0.3 mg/m³.

Toxicity data

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

ORL-RAT LD₅₀ 124 mg kg⁻¹

SKN-RAT LD₅₀ 400 mg kg⁻¹

IPR-RAT LD₅₀ 90 mg kg⁻¹

ORL-MUS LD₅₀ 107 mg kg⁻¹

SKN-RBT LD₅₀ 1000 mg kg⁻¹

ORL-QAL LD₅₀ 186 mg kg⁻¹

SCU-GPG LD₅₀ 170 mg kg⁻¹

Risk phrases

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

R2 R23 R24 R25 R45 R46 R48.

Transport information

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

Hazard class 6.1. UN No 2074. Packing group III.

Personal protection

Safety glasses and gloves. Effective ventilation. Handle as a carcinogen.

Safety phrases

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

S45 S53.

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