

Safety data for propanoic acid

[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: Iuprosil, metacetic acid, methylacetic acid, propionic acid, carboxyethane, hydroacrylic acid, propionic acid grain preserver, ethylformic acid, ethanecarboxylic acid, Tenox P grain preservative, sentry grain preserver

Molecular formula: $C_3H_6O_2$

CAS No: 79-09-4

EINECS No: 201-176-3

Physical data

Appearance: colourless liquid

Melting point: -20.8 C

Boiling point: 141.1 C

Vapour density: 2.56

Vapour pressure: 10 mm Hg at 20 C

Density ($g\ cm^{-3}$): 0.992

Flash point: 51 C

Explosion limits: 2.9 - 12.1 %

Autoignition temperature:

Stability

Stable. Incompatible with strong oxidizing agents. Flammable.

Toxicology

Corrosive - causes burns. Harmful by ingestion, inhalation and through skin contact. Irritant.

Toxicity data

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

IVN-MUS LD50 625 mg kg^{-1}

SKN-RBT LD50 500 mg kg^{-1}

Irritation data

(The meaning of any abbreviations which appear in this section is given [here.](#))
SKN-RBT 495 mg open sev

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here.](#))
R20 R21 R22 R34 R36 R37 R38.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here.](#))
UN No 1848. Packing group III. Major hazard class 8.0. Subsidiary hazard class 3.0.

Personal protection

Safety glasses, adequate ventilation.

Safety phrases

(The meaning of any safety phrases which appear in this section is given [here.](#))
S2 S23 S36.

SPECIFICATIONS

- Offered as 100 mL (sc-203367) and 500 mL (sc-203367A) sizes
- CAS Number: 79-09-4
- Molecular Weight: 74.08
- Molecular Formula: $\text{CH}_3\text{CH}_2\text{COOH}$
- Form: Liquid
- Physical Appearance: Clear colorless liquid
- SMILES: CCC(=O)O