

MATERIAL SAFETY DATA SHEET

PROPANOIC ACID

1. Product Identification

Product Name: Propanoic acid
Alternate Name: Acid C3, Carboxyethane, Ethanecarboxylic acid
CAS No.: 79-09-4
Chemical Formula: C₃H₆O₂
Product Use: Laboratory chemicals.

Supplier: ASES CHEMICAL WORKS.
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Jodhpur - 342001 Rajasthan-India
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2. Hazards Identification

Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category 3 H226
Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause respiratory irritation. Causes severe skin burns and eye damage.

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms:



GHS02



GHS05



GHS07

Signal word: Danger

Hazard statements: H226 - Flammable liquid and vapour.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

Precautionary statements: P210 - Keep away from heat, hot surfaces, sparks, and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P303+P361+P353 - Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards: Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

3. Composition/Information on Ingredients

Product Name	CAS No.	EC No	Mol Formula	Mol weight	Concentration%
Propionic Acid	79-09-4	201-176-3	C ₃ H ₆ O ₂	74.079	99.5%

4. First Aid Measures

General: If you feel unwell, seek medical advice. Treat symptomatically.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

5. Fire Fighting Measures

Extinguishing media: Carbon dioxide. Dry powder. Foam. Water spray.

Fire/Explosion hazard: Flammable liquid and vapour.

Hazardous decomposition products: Toxic fumes may be released.

Advice for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods clean-up procedures and Storage:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal

7. Handling and Storage

Handling: : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Room Temperature . Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls/Personal Protection

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protection equipment: Wear recommended personal protective equipment.

Eye and face protection: Chemical goggles or safety glasses

Skin protection: Wear a mask. Protective gloves

Respiratory protection: Wear appropriate mask

Environmental exposure controls: Avoid release to the environment.

9. Physical and Chemical Properties

Physical state:	Liquid	Flammability (solid, gas):	Not applicable
Appearance:	Clear liquid.	Vapour pressure:	3.2 hPa at 20 °C
Molecular mass:	74.08 g/mol	Relative vapour density at 20 °C:	2.56 (Air = 1.0)
Colour:	Colourless.	Relative density:	No data available
Odour:	Pungent. unpleasant.	Density:	0.993 g/cm ³ at 20°C
Odour threshold:	No data available	Solubility in Water:	Miscible in water
pH:	2.5 at 20°C	Partition coefficient:	0.25
pH solution concentration:	10 %	n-octanol/water (Log Pow)	
Relative evaporation rate:	No data available	Viscosity, kinematic:	1.027 mm ² /s
Melting point:	Not applicable	Viscosity, dynamic:	1.02 cP at 25°C
Freezing point:	-20.5 °C	Explosive properties:	No data available
Boiling point:	141 °C	Oxidising properties:	No data available
Flash point:	54 °C	Lower explosive limit (LEL):	2.9 vol %
Auto-ignition temp:	512 °C	Upper explosive limit (UEL):	12.1 vol
Decomposition temp:	No data available		

10. Stability and Reactivity

Reactivity: Flammable liquid and vapour.

Stability: Stable under normal conditions.

Hazardous Polymerization: No dangerous reactions known under normal conditions of use.

Hazardous Decomposition Products: Thermal decomposition generates : Corrosive vapours.

Incompatibilities: No additional information available

Conditions to Avoid: Avoid Direct sunlight, Hot surfaces, Heat, No flames, no sparks.

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11. Toxicological Information

Acute toxicity (oral/dermal/inhalation) : Not classified

Skin corrosion/irritation: Causes severe skin burns. pH: 2.5 at 20°C

Serious eye damage/irritation: Assumed to cause serious eye damage. pH: 2.5 at 20°C

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological Information

Ecology - general: Before neutralisation, the product may represent a danger to aquatic organisms.

Persistence and Degradability: No additional information available

Bioaccumulative potential: Partition coefficient n-octanol/water (Log Pow): 0.25

Mobility in soil: No additional information available.

Results of PBT and vPvB assessment: No additional information available.

Other adverse effects: No additional information available.

13. Disposal Considerations

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

14. Transport Information

	IATA	IMO	RID/ADR
Shipping name:	Propionic Acid	Propionic Acid	Propionic Acid
Hazards Class:	8(3)	8(3)	8(3)
Un Number:	UN 3463	UN 3463	UN 3463
Packing Group :	II	II	II.

15. Regulatory Information

This Safety datasheet complies with the requirements of Regulation (EC) No 1907/2006. For this product a chemical safety assessment was not carried out

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.