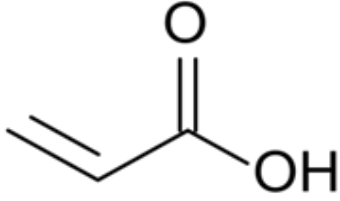

ACRYLIC ACID



IUPAC NAME: 2-Propenoic acid

CHEMICAL FORMULA: C₃H₄O₂, CH₂=CHCOOH

CAS NO: 79-10-7

MOLECULAR WEIGHT: 72.8 g/mol

PACKING: Barrel 220 KG

PRODUCT DESCRIPTION:

Acrylic acid (CAS 79-10-7) is an organic molecule known as the simplest unsaturated acid. At room temperature, acrylic acid is in liquid form and has a characteristic acidic and sour odor. It exhibits a corrosive effect in both liquid and vapor states. Acrylic acid is commonly used in the formation of polymers. Its applications include plastics, coatings, adhesives, elastomers, paints, and varnishes. Additionally, acrylic acid is used in the production of hygienic medical products, detergents, and wastewater treatment chemicals. The low toxicity of acrylic acid is attributed to its corrosive nature.

PROPERTIES:

- Hydrophilicity
- Water solubility
- Adhesiveness

APPLICATION AREAS:

- Paper and cellulose production
- Paint and varnish production
- Textile industries
- Detergent production
- Ceramics
- Perfumes and cosmetics
- Water treatment industry
- Binders in medicine and oil production
- Adhesives
- Pharmaceutical regulators

IT IS APPLIED IN THE PRODUCTION OF:

- Used in acrylic and water-based dispersions
- Industrial and architectural coatings
- Paints and varnishes
- Textiles
- Cellulose and paper
- Paper and leather coatings
- Wood and metal coatings
- Film-forming agents
- Thickeners
- Scale inhibitors
- Adhesives
- Drilling mud regulators
- Inks, fillers, and sealing materials.


CHEMICAL PROPERTIES

PURITY	min. 99.9 %
MOISTURE AMOUNT	max 0.1%
COLOUR (APHA)	max 20
INHIBITOR	200±20 ppm MEHQ

PHYSICAL PROPERTIES

APPEARANCE	Colourless
PHYSICAL STATE	Liquid
ODOR	Pungent
DENSITY	1.046 g/cm ³ at 25°C
BOILING POINT	141.2°C
FREEZING POINT	13.5°C
FLASH POINT	50 °C
VISCOSITY	1,15 mPa.s at 25 °C
VAPOR PRESSURE	20°C'de 39 mbar

SAFETY INFORMATION

HAZARD PICTOGRAM(S)	 <p>C Corrosive</p> <p>N Dangerous for the environment</p>
RISK PHRASES	<p>R 10 Flammable.</p> <p>R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.</p> <p>R 35 Causes severe burns.</p> <p>R 50 Very toxic to aquatic organisms.</p>
SAFETY PHRASES	<p>S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.</p> <p>S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>S61 Avoid release to the environment. Refer to special instructions/safety data sheets.</p>
STORAGE CLASS	<p>Storage class 3A Flammable Liquids</p>
STORAGE CONDITIONS	<ul style="list-style-type: none"> • Store only in unopened original receptacles. • Suitable material for receptacles and pipes: Stainless steel. • Provide acid-resistant floor. • Observe national regulations for storage of flammable liquids. • Keep the receptacle tightly sealed. • Protect from heat and direct sunlight.
DISPOSAL	<p>Must not be disposed of together with household garbage. Do not allow products to reach the sewage system.</p> <p>Must be specially treated adhering to official regulations.</p>
TRANSPORT INFORMATION	<p>Land transport ADR/RID (cross-border):</p>



- ADR/RID class: 8 (CF1) Corrosive substances.
- Danger code (Kemler): 839
- UN-Number: 2218
- Packaging group: II
- Label: 8+3
- Description of goods: 2218 ACRYLIC ACID, STABILIZED

Maritime transport IMDG:



- IMDG Class: 8
- UN Number: 2218
- Label: 8+3
- Packaging group: II
- EMS Number: F-E,S-C
- Marine pollutant: No
- Proper shipping name: ACRYLIC ACID, STABILIZED

Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 8
- UN/ID Number: 2218
- Label: 8+3
- Packaging group: II

Proper shipping name: ACRYLIC ACID, STABILIZED

For more information, check the SAFETY DATA SHEET or get contact with us.