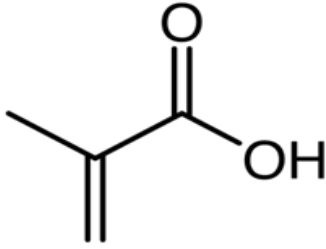

METHACRYLIC ACID



IUPAC NAME: 2-methylprop-2-enoic acid

CHEMICAL FORMULA: C₄H₆O₂, CC(=C)C(=O)O

CAS NO: 79-41-4

MOLECULAR WEIGHT: 86 g/mol

PACKING: Barrel, 200 KG

PRODUCT DESCRIPTION:

Methacrylic Acid (MAA) is a functional monomer and an unsaturated monocarboxylic acid. It reacts as both a vinyl compound and a carboxylic acid. Methacrylic Acid (MAA) readily undergoes polymerization and addition reactions. MAA copolymers can be prepared with acrylic and methacrylic esters, acrylonitrile, maleic acid esters, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene, ethylene, and other monomers.

PROPERTIES:

- Adhesive ability
- Hydrophilic
- Water solubility
- Required rheological properties

APPLICATION AREAS:

Methacrylic Acid (MAA) is used as a binder in the synthesis of esters and salts, paints and varnishes, textiles, pharmaceuticals, and in the petroleum industry.

IT IS APPLIED IN THE PRODUCTION OF:

- Coating materials
- Cellulose and paper
- Paints and varnishes
- Adhesives and sealants
- Leather and textiles
- Film-forming materials
- Thickeners
- Lubricants
- Medical materials
- Plastics
- Petroleum field


CHEMICAL PROPERTIES

PURITY	min 99.9%
ACID CONTENT	min 99.9%
MOISTURE AMOUNT	max 0.05%
COLOUR (APHA)	max 30
INHIBITOR	230 ~270 ppm MEHQ

PHYSICAL PROPERTIES

APPEARANCE	Clear, colorless
PHYSICAL STATE	Liquid at >13°C
ODOR	Pungent
DENSITY	1.02 g/cm ³ at 20°C
BOILING POINT	163 °C
FREEZING POINT	16°C
FLASH POINT	68 °C
VISCOSITY	1.34cp at 25 °C
VAPOR PRESSURE	133.3Pa 1mmHg at 25.5 °C

SAFETY INFORMATION

HAZARD PICTOGRAM(S)	
HAZARD STATEMENT(S)	<p>H302 + H332 Harmful if swallowed or if inhaled.</p> <p>H311 Toxic in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H335 May cause respiratory irritation.</p>
RISK PHRASES	<p>R21/22 Harmful in contact with skin and if swallowed.</p> <p>R35 Causes severe burns.</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 an accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p>
PRECAUTIONARY STATEMENT(S)	<p>P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
STORAGE CLASS	<p>Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects</p>
STORAGE CONDITIONS	<p>Keep in a well-ventilated place.</p>



	<p>Maintain in contact with an atmosphere containing between 5 and 21% of oxygen</p> <p>Keep away from heat and sources of ignition. Do not smoke</p> <p>Protect against light.</p> <p>Avoid long storage period</p> <p>Continuously monitor product temperature</p> <p>Avoid solidification</p> <p>Decrystallize by agitating at a maximum temperature of 25°C</p> <p>Monitor the product clarity</p> <p>Inhibitor levels should be maintained.</p> <p>Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres.</p> <p>Provide a catch-tank in a bunded area</p> <p>Storage temperature: 20 - 25 °C</p>
DISPOSAL	<p>Disposal of product: Neutralize with sodium carbonate or neutralize with slaked lime. Neutralization is exothermic</p> <p>Disposal of packaging: Neutralize with a slightly alkaline solution</p>
TRANSPORT INFORMATION	<p>ADR</p> <ul style="list-style-type: none">● UN Number: 2531● Proper shipping name: METHACRYLIC ACID, STABILIZED● Class: 8● Packaging group: II● Classification Code: C3● Hazard identification No: 89● Label: 8 <p>ADNR</p> <ul style="list-style-type: none">● UN Number: 2531● Proper shipping name: METHACRYLIC ACID, STABILIZED● Class: 8● Packaging group: II● Classification Code: C3● Hazard identification No: 89● Label: 8 <p>RID</p>



- UN Number: 2531
- Proper shipping name: METHACRYLIC ACID, STABILIZED
- Class: 8
- Packaging group: II
- Classification Code: C3
- Hazard identification No: 89
- Label: 8

IATA Cargo

- UN Number: 2531
- Proper shipping name: Methacrylic acid, stabilized
- Class: 8
- Packaging group: II
- Label: 8

IATA Passenger

- UN Number: 2531
- Proper shipping name: Methacrylic acid, stabilized
- Class: 8
- Packaging group: II
- Label: 8

IMDG

- UN Number: 2531
- Proper shipping name: METHACRYLIC ACID, STABILIZED
- Class: 8
- Packaging group: II
- Label: 8
- EmS Number: F-A, S-B
- Marine pollutant: no

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