## **Technical Information**

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## Petrochemicals

TI/CP 1574 e October 2017

Supersedes edition dated April 2016



## Methacrylic acid, technical

Unsaturated monocarboxylic acid, for manfacturing polymers and for use as a feedstock for syntheses

CH <sub>2</sub> = (	C –		OH
	CH <sub>3</sub>	0	

 $C_4H_6O_2$ 

CAS No.: 76-41-4 EINECS No.: 201-204-4

Molar mass: 86

Assay (Gas chromatography) Water content (ASTM E 203) Standard stabilization (HPLC BASF or ASTM D 3125) min. 98.0 % max. 1.5 % 400 ± 50 ppm MEHQ

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose and no liability of ours can be derived therefrom.

## Other properties

**Product specification** 

Appearance Physical form Odor Density at 25 °C Refractive index n<sub>d</sub> at 20 °C **Boiling point** Freezing point Viscositv at 20 °C at 40 °C Specific heat of liquid at 20 °C Heat of evaporation at boiling point Heat of polymerization Dissociation constant at 25 °C Vapor pressure at 20 °C Temperature rating for electrical equipment

clear, colorless liquid at > 16 °C pungent 1.02 g/cm<sup>3</sup> 1.426 – 1.430 161 °C approx. 16 °C 1.4 mPa ·s 1.0 mPa ·s 2.0 kJ/kg °C 385 kJ/kg

768 kJ/kg 3.7 x 10<sup>-5</sup> 0.89 mbar

T 2 (300-450 °C)

Labelling according to local Directives see MSDS

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Applications	Methacrylic acid can be used to pr	Methacrylic acid can be used to produce homopolymers and copolymers.	
Processing	approx. 400 ppm of hydroquinone i supplied in its stabilized form, beca not stabilized. It is not usually nece	Methacrylic acid polymerizes very readily. It is generally stabilized with approx. 400 ppm of hydroquinone monomethyl ether (MEHQ). It is only ever supplied in its stabilized form, because it can polymerize with violence if it is not stabilized. It is not usually necessary to remove the stabilizer, because its action can be compensated for by adding an excess of initiator.	
Storage & Handling	under air, and never under inert ga for the stabilizer to function effectiv between 18 and 35 °C, preferably t storage periods over 4 weeks it is a oxygen content. Under these condi	methacrylic acid must always be stored ses. The presence of oxygen is required rely. Methacrylic acid must be stored between 20 and 25 °C. For extended advisable to replenish the dissolved itions, a storage stability of one year can he likelihood of overstorage, the storing "first-in-first-out" principle.	
	below 18 °C. Improper thawing ca	re of methacrylic acid should never drop n result in violent polymerization. Do not frozen methacrylic acid unless you have supplier.	
	talled. This would help to prevent p of pool fire, contamination or other substitute for appropriate preventiv tion please consult also the brochu	or Group of CEFIC. For a brochure or for	
Safety	A Material Safety Data Sheet has b contains up-to-date information on	been compiled for Methacrylic acid that all questions relevant to safety.	
Note	and experience. In view of the man and application of our product, thes carrying out their own investigation any guarantee of certain properties a specific purpose. Any description portions, weights etc. given herein		
	October 2017		