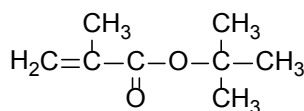


tert-Butyl Methacrylate low stabilizer (TBMA LS)

Methacrylic acid ester, for manufacturing polymers and for use as a feed stock for syntheses



CAS No.: 585-07-9

EINECS No.: 209-548-7

Molecular formula

C₈H₁₄O₂

Molar mass: 142.2 kg/kmol

Product specification

Assay (Gas chromatography)	min. 99.00 %
Water content (ASTM E 203)	max. 0.050 %
Acid content (calc. as methacrylic acid) (ASTM D 1613)	max. 0.1000 %
Color on dispatch (APHA, ASTM D 1209)	max. 10
Standard stabilization (HPLC)	15 ± 5 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. No liability of ours can be derived therefrom.

Other properties

Appearance	clear, colorless
Physical form	liquid
Density at 20 °C	0.875 g/cm ³
Refractive index n _d at 20 °C	1.415
Boiling point	136 °C
Freezing point	- 48 °C
Viscosity at 20 °C	0.97 mPa · s
Vapor pressure at 18.5 °C	7.0 mbar

Labelling according to local Directives

see SDS

Technical Information

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TBMA LS

Applications

tert-Butyl Methacrylate low stabilizer (TBMA LS) forms homopolymers and copolymers. Copolymers of *tert*-Butyl Methacrylate low stabilizer (TBMA LS) can be prepared with acrylic acid and its salts, amides and esters, and with methacrylates, acrylonitrile, maleic acid esters, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene, unsaturated polyesters and drying oils, etc. *tert*-Butyl Methacrylate low stabilizer (TBMA LS) is also a very useful feedstock for chemical syntheses, because it readily undergoes addition reactions with a wide variety of organic and inorganic compounds.

Features & Benefits

tert-Butyl Methacrylate low stabilizer (TBMA LS) is a monofunctional monomer with a characteristic high reactivity of methacrylates and a bulky hydrophobic moiety. *tert*-Butyl Methacrylate low stabilizer (TBMA LS) can be used to impart the following properties to polymers:

- Chemical resistance
- Hydrophobicity
- Hardness
- Scratch resistance
- Adhesion
- Heat resistance
- High solids
- Weatherability

Storage & Handling

In order to prevent polymerization, *tert*-Butyl Methacrylate low stabilizer (TBMA LS) must always be stored under air, and never under inert gases. The presence of oxygen is required for the stabilizer to function effectively. It has to contain a stabilizer and the storage temperature must not exceed 35 °C. Under these conditions, a storage stability of one year can be expected upon delivery. In order to minimize the likelihood of overstorage, the storage procedure should strictly follow the "first-in-first-out" principle. For extended storage periods over 4 weeks it is advisable to replenish the dissolved oxygen content.

The preferred construction material for tanks and pipes is stainless steel. Carbon steel is also acceptable, although the formation of rust may be a problem with product quality (color). Iron(III)-ions have been shown to be a weak polymerization initiator. If carbon steel is to be used, special procedures should be used to prepare the tank for use. Storage tanks, pumps and pipes should be earthed.

Safety

A Safety Data Sheet has been compiled for *tert*-Butyl Methacrylate low stabilizer (TBMA LS) that contains up-to-date information on questions relevant to safety.

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The BASF logo consists of a white square with a smaller white square inside it, followed by the letters "BASF" in a bold, white, sans-serif font.

We create chemistry

Note

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