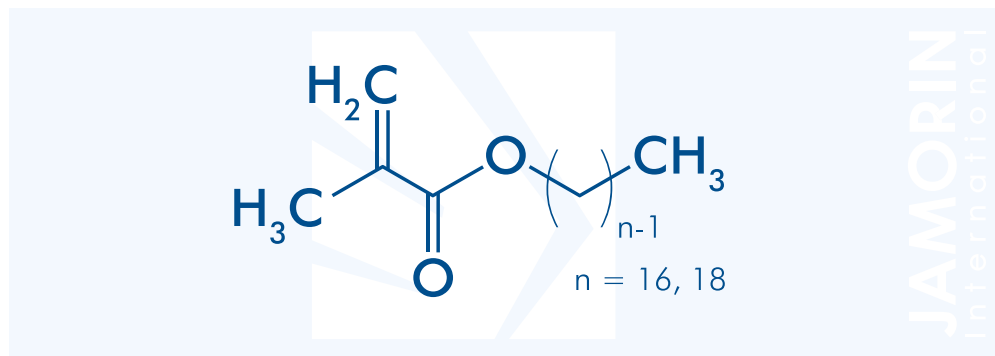


Methacrylic acid ester, for manufacturing polymers and for use as a feed stock for syntheses


 CAS # 2495-27-4 (C₁₆)
 32360-05-7 (C₁₈)

 EINECS # 219-672-3 (C₁₆)
 251-013-5 (C₁₈)

MOLECULAR FORMULA

 C₂₀H₃₈O₂ (C₁₆)
 C₂₂H₄₂O₂ (C₁₈)

MOLAR MASS

 310.5 g/mol (C₁₆)
 338.6 g/mol (C₁₈)

PRODUCT SPECIFICATION

Properties	Typical	Method
Assay	min 97.0 %	Gas chromatography
Water content	max 0.1 %	ASTM E 203
Acid content (calc. as methacrylic acid)	max 0.02 %	ASTM D 1613
Color on dispatch	max 150	APHA, ASTM D 1209
Standard stabilization	100 ±20 ppm MEHQ 10 ±10 ppm HQ	HPLC

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

Properties	Typical	Method
Appearance	Pale yellow	
Physical form	Liquid	
≤ C ₁₄ ester	max 5 %	Gas chromatography
C ₁₆ ester	25...30 %	Gas chromatography
C ₁₈ ester	65...70 %	Gas chromatography
≥ C ₂₀ ester	max 3 %	Gas chromatography
Density @ 60 °C	0.86 g/cm ³	
Melting point	19 °C	
Boiling point @ 64 hPa	190...210 °C	
Viscosity dynamic @ 25 °C	11 mPas · s	
Flash point	196 °C	

Jamorin has Material Safety Data Sheets (MSDS) for each products. The MSDS contain relevant information needed to safeguard your employees from any known safety and health hazard related with our products. Jamorin provides you MSDS for all the products you evaluate or buy. It is also necessary that you get copies of the MSDS of the other raw materials recommended in our technical bulletins from the suppliers. Your employees should have ready access to and to be trained well on the proper use of MSDS

APPLICATIONS

Stearyl Methacrylate 1618 F (SMA 1618 F) forms homopolymers and copolymers. Copolymers of Stearyl Methacrylate 1618 F (SMA 1618 F) can be prepared with (meth)acrylic acid and its salts, amides and esters, and with (meth)acrylates, acrylonitrile, maleic acid esters, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene, unsaturated polyesters and drying oils, etc. Stearyl Methacrylate 1618 F (SMA 1618 F) is also a very useful feedstock for chemical syntheses, because it readily undergoes addition reactions with a wide variety of organic and inorganic compounds.

Stearyl Methacrylate 1618 F (SMA 1618 F) is used in oil additives as flow/viscosity index improver for highly paraffinic oils and as pour point depressant. Stearyl Methacrylate 1618 F (SMA 1618 F) may also be employed in concrete and paper coatings, textile finishes, varnishes, pressure-sensitive adhesives. Stearyl Methacrylate 1618 F (SMA 1618 F) may be incorporated as co-monomer in paint resins, hair-care compositions, plastics and floor care products.

FEATURES AND BENEFITS

Stearyl Methacrylate 1618 F (SMA 1618 F) is mixture of mainly C₁₆ alcohol (Cetyl) and C₁₈ alcohol (Stearyl) methacrylates. Stearyl Methacrylate 1618 F (SMA 1618 F) can be used to impart the following properties to polymers:

- Hydrophobicity
- Adhesion
- Weather resistance
- Low shrinkage
- Water/Chemical resistance
- Flexibility
- Impact strength

STORAGE & HANDLING

In order to prevent polymerization, Stearyl Methacrylate 1618 F (SMA 1618 F) 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.

If Stearyl Methacrylate 1618 F (SMA 1618 F) accidentally is crystallized the product should never be partially molten and taken, because the possible separation from the stabilizer. Ensure that there is no crystallized product in the container before use. Obtain information from supplier/manufacturer before dissolving totally or partially crystallized product. The ambient temperature of the container may not exceed the stated temperature limit when melting the product or keeping it at moderate temperature.

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 Stearyl Methacrylate 1618 F (SMA 1618 F) that contains up-to-date information on questions relevant to safety.

PACKAGING

It can be purchased in bulk and 200L drum. Special packing can be arranged.

NOTE

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

DISCLAIMER «It is in good faith that we offer suggestions on the use of our products and these are based on knowledge we believe are correct and dependable. However, these are with no guarantee as process and conditions in the use of our products may vary and are beyond our control. We strongly recommend that users of our products verify the appropriateness of our suggestions before using them on a commercial scale».

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