

Alpha methylstyrene - Low Carbon

Identification ¹

CAS Number: 98-83-9

EC Number: 202-705-0

Description

Alpha methylstyrene (AMS) is a colorless liquid organic chemical used to produce a wide variety of styrenic polymers, result of splitting cumene hidroperoxide with sulphuric acid. Before, Cumene is obtained through a catalytic alkylation of benzene with propilene. Fractionation units allow us to separate AMS from the rest of the elements.

Uses

Main use of AMS is the production of Acrylonitrile Butadiene Styrene (thermoplastic resin). In addition, it is included in several applications, from coatings to food and cosmetic industries.

Typical properties

| Parameter | Unit | Method | Value | |
|---------------------------|-------------------|-------------|---------------------------------------|--------|
| Appearance | - | ASTMD 4176 | Clear liquid without suspended matter | |
| Purity | %(m/m) | ASTM D 6144 | >99,7 | |
| Color Pt/Co | Hazen | ASTM D 1209 | <10 | |
| Melting poing | °C | | -23,2 | |
| Boiling point | °C | ASTM D 1078 | 161-162,1 | |
| Auto-ignition temperature | °C | - | 574 | |
| TBC | mg/kg | ASTM D 6144 | 10 min- 20 max | |
| Phenol | mg/kg | ASTM D 3160 | < 5 | |
| Cumene | mg/kg | ASTM D 3160 | < 900 | |
| Water | mg/kg | ASTM D 6304 | < 90 | |
| Density @ 20 °C | g/cm ³ | ASTM D 4052 | 0,91 | |
| Vapor presure @ 50°C | kPa | | 1,5 | |
| Flash point | Closed cup: | °C | ASTM D 93 | 54 |
| Refractive Index @20°C | | | | 1,5386 |

*All the data provided does not imply the replacement of the Moeve Specification Sheets or Safety Sheets

¹ For the latest updates on these numbers, please consult the safety data sheet available at: chemicals.moeveglobal.com

Transport

Available in tank trucks, rail-tank, vessels and barges.

Storage and handling

Store in accordance with local regulations.

Tank material: Stainless steel 316. Carbon steel with coatings.

Health ans safety

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep away from heat, sparks, open flames, or any other ignition source. For more safety considerations, refer to the Safety Data Sheet.