



Alpha-Methylstyrene

Product Data Sheet – typical properties and specifications

Alpha-Methylstyrene (AMS) is a colorless liquid organic chemical used to produce a wide variety of styrenic polymers. AMS adds heat resistance to ABS resins which can be found in automotive parts, electronic appliance housings and protective coatings. AMS is also used to improve the impact and heat-resistant properties of certain polymers, including specialty grades of plastic, rubber, and adhesives. AMS is used in the production of para-cumylphenol, a specialty intermediate for thermoplastics and polycarbonate resins.

Health and safety information and safe handling suggestions are available through the appropriate Safety Data Sheet (SDS).

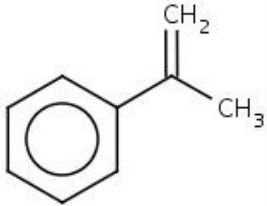
Specifications

Characteristic	Sales Specifications	Test Method
Appearance	Clear water white liquid	Visual
Color, APHA	20 Max	D1209
Specific Gravity 15.5C/15.5C	0.912 – 0.915	D268
Specific Gravity 25C/25C	0.903 – 0.908	D268
Purity, Wt. %	99.3 Min	D6144
Phenol Content, ppm	20 Max	D3160
Inhibitor Content (p-TBC), ppm	10 – 20	D6144

For more information on Alpha-Methylstyrene or other chemicals in our product line, call us today at (713) 658-9000.

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Typical Physical Properties

Typical Properties	Typical Value
Structural Formula	
Empirical Formula	C ₆ H ₅ C(CH ₃)CH ₂
Molecular Weight	118.2 g/mol
Physical State	Liquid
Color	Colorless
Odor	Pungent, Aromatic
Explosive Limits (by volume in air)	Lower: 1.9% Upper: 6.1%
Flash Point (closed cup)	53.9 °C (129 °F)
Autoignition Temperature	573.9°C (1065°F)
Boiling Point (760 mm)	165.1°C (329.2 °F)
Density at 20°C, 68°F	6.63 lb/US gal
Dielectric Constant 25°C	21.45
Melting Point (freezing point)	9.8 °C (49.6 °F)
Reactivity	Yes
Refractive Index at 20°C	1.5386
Specific Gravity (20°C/68°F)	0.91
Vapor Density (Air = 1.0)	4.1
Viscosity at 45°C (113°F)	0.078 cP
at 60°C (140°F)	0.0762 cP
at 80°C (176°F)	0.0738 cP
Water Solubility (miscibility)	Negligible
Weight per gallon at 50°C (122°F)	7.39 lb

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