

Alpha Methylstyrene

Description

Alpha methylstyrene (AMS) from AdvanSix is produced by the partial oxidation of cumene. It is commonly used in a variety of applications to improve product functionality, including acrylonitrile butadiene styrene (ABS) plastics, pure monomer tackifying resins and water-based styrene acrylic inks.

Physical and Chemical Properties

Typical Properties	Specifications
CAS Number	98-83-9
Chemical Formula	$C_6H_5C(CH_3)CH_2$
Other/Generic Names	Alpha-methylstyrene, AMS, isopropenyl benzene
Appearance	Clear water white liquid
Physical State	Liquid
Molecular Weight	118.2
Odor	Pungent, Aromatic
Density @ 25°C (77°F)	7.562 lb/gal
Specific Gravity @ 20°C/68°F	0.91
Vapor Density (Air = 1.0)	4.1
Viscosity of Liquid @ 40°C (104°F)	0.73 cP
Viscosity of Liquid @ 60°C (140°F)	0.59 cP
Viscosity of Liquid @ 80°C (176°F)	0.48 cP
Water Solubility (miscibility)	Negligible
Explosive Limits (by volume in air)	Lower = 1.9, Upper = 6.1
Flash Point, Open Cup	57.8°C (136°F)
Flash Point, Closed Cup	47.8°C (118°F)
Refractive Index @ 20°C	1.5386
Autoignition Temperature	573.9°C (1065°F)
Boiling Point (760 mm)	165.1°C (329.2°F)
Melting Point	-22.8°C (-9.04°F)
Color	Colorless

See *Product Specifications table* on page 2.

Alpha Methylstyrene

Product Specifications

Typical Properties	Specifications	Test Method
Appearance	Clear water white liquid	Visual
Color, APHA	20 Max.	D-1209
Specific Gravity 15.5°C (59.9 F)	0.912-0.915	D-268
Specific Gravity 25°C (77 F)	0.903-0.908	D-268
Purity, Weight %	99.3 Min.	D-6144
Phenol Content, ppm	20 Max.	D-3160
Inhibitor Content (p-TBC), ppm	10-20	D-6144

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

Page 2 of 2

Contact AdvanSix

To learn more about acetone, visit

[AdvanSix.com/chemicalintermediates](https://www.advan-six.com/chemicalintermediates)

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