

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.

PERFORMANCE OVERVIEW

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

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.	118.2	D-3160
Inhibitor Content (p-TBC), ppm	10-20	D-6144

NOTE

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

Although AdvanSix Inc. believes that the information contained herein is accurate and reliable, it is presented without guarantee or responsibility of any kind and does not constitute any representation or warranty of AdvanSix Inc., either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials, such as other raw materials, application, formulation, environmental factors and manufacturing conditions among others, all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liabilities (including, but not limited to, risks relating to results, patent infringement, regulatory compliance and health, safety and environment) related to the use of the products and/or information contained herein.

June 2020-5, Printed in U.S.A.
©2020 AdvanSix Inc. All rights reserved

CONTACT ADVANSIX

Contact AdvanSix to learn more about the benefits of Alpha-Methylstyrene.

ADVANSIX.COM

1-844-890-8949 (TOLL FREE, U.S./CAN.)

+1-973-526-1800 (INTERNATIONAL)

ADVANSIX HEADQUARTERS

300 Kimball Drive, Suite 101

Parsippany, NJ 07054

