

KUMHO P&B CHEMICALS, Inc.



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ALPHA METHYL STYRENE

PRODUCT INFORMATION **AMS**

beyond
the best

KUMHO P&B CHEMICALS

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General

AMS is a clear colorless liquid with a strong aromatic odor that is stable under normal and recommended storage conditions, including the presence of inhibitor. The liquid and vapor are flammable. In use, AMS may form a flammable/explosive vapor-air mixture. Kumho's AMS is produced as a byproduct during the production process of Cumene.

IUPAC name : prop-1-en-2-ylbenzene

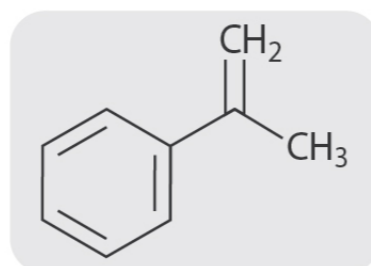
Synonyms : 2-phenylpropene, Alpha-methyl-styrene, Alpha-methylstyrol

Molecular formula : C₉H₁₀

CAS number : 98-83-9

EINECS/ELINCS number : 607-482-7

Package : Drum, Iso-tank, Tank lorry



Sales Specification

Purity, wt.%	99.0 Min.
Water, wt.ppm	400 Max.
Color, Pt/Co	15 Max.
p-TBC, wt.ppm	20 Max.
Phenol, wt.ppm	20 Max.

Typical Properties

Molecular Weight	118.18
Appearance	Clear liquid
Odor	Pungent, Aromatic
Boiling point, °C	165.1
Flash point, °C	53.9
Autoignition temp, °C	573.9
Heat of vaporization@25°C, KJ/mol	47.81
Vapour pressure@25°C, mmHg	2.83
Vapour density@25°C, mmHg (air=1)	4.1

Uses

AMS is an intermediate chemical used in the manufacturing of plasticizers, resins, and in many polymerization production processes. It is also used for the purpose of enhancing heat resistance in the polymerization of ABS resin.

Refractive Index @20°C	118.18
Explosive limits by vol.%	Clear liquid
Solubility in water in other solvent	Insoluble Almost good
Specific gravity(H ₂ O=1)	53.9

Handling And Storage

Precautions for safe handling

- Avoid direct physical contact.
- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Comply with all applicable laws and regulations for handling
- Get the manual before use.
- Do not inhale the steam prolonged or repeated.
- Avoid contact with heat, sparks, flame or other ignition sources.
- Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

- Do not apply direct heat.
- Save applicable laws and regulations.
- Avoid direct sunlight.
- Please pay attention to incompatibilities materials and conditions to avoid.
- Keep sealed when not in use.
- By specifying a storage area for carcinogenic substances.
- Collected them in sealed containers.
- Store away from water and sewer.

Hazards Information

Hazards classification information

- Flammable liquids : Category3
- Skin corrosion/irritation : Category2
- Serious eye damage/irritation : Category2B
- Carcinogenicity : Category2
- Specific target organ toxicity(Single exposure) : Category2
- Specific target organ toxicity(Single exposure) : Category3(Respiratory tract irritation)
- Aspiration hazard : Category1
- Acute aquatic toxicity : Category2
- Chronic aquatic toxicity : Category2
- NFPA : Health : 2, Flammability : 2, Reactivity : 1 grade (0 ~ 4 level)

Human health hazards

- To man
- Causes skin irritation
 - May cause respiratory irritation.
 - Suspected of causing genetic defects
 - Suspected of damaging fertility or the unborn child
 - May cause damage to organs
 - Causes damage to organs through prolonged or repeated exposure

Environmental hazards

- To the environment
- Toxic to aquatic life with long lasting effects.