



## MONOMETHYLAMINE (MMA) (CH<sub>3</sub>)NH<sub>2</sub>

### PRODUCT SPECIFICATIONS

	<b>ANHYDROUS FORM 100%</b>	<b>ANALYTICAL METHOD 100%</b>	<b>WATER SOLUTION 40%</b>	<b>ANALYTICAL METHOD 40%</b>
Monomethylamin %	Min. 99.65	Gas Chromatographic	Min. 40-41	Titrimetric
Ammonia	% Max. 0.05	Gas Chromatographic	Max. 0.02 Gas	Chromatographic
Dimethylamin	% Max. 0.1	Gas Chromatographic	Max. 0.04 Gas	Chromatographic
Trimethylamin	% Max. 0.1	Gas Chromatographic	Max. 0.04 Gas	Chromatographic
Water	% Max. 0.1	Gas Chromatographic	Max. 60	-

### PHYSICAL AND CHEMICAL PROPERTIES

	<b>100%</b>	<b>40%</b>
Appearance/Physical State	Colorless liquidized gas	Colorless liquid
Molecular Weight	31	-
Specific Gravity (15°C)	0.67	0.90
Boiling Point	-6.3	49.4
Vapor Pressure (20 °C) kg/cm <sub>2</sub>	2.7	0.3
Explosive Properties %	4.95-20.75	-
Freezing Point (°C)	-93	-38
Auto Flammability	430	-
Flash Point	0	-10

### PACKAGING

MMA anhydrous in pressurized tubes, Water solution (%40) in 170 kg steel drums.

### HANDLING AND STORAGE

**Handling:** The product is extremely flammable and poisonous if swallowed. Wear rubber and PVC gloves, clothes, boots and special canister masks during contact. Amines are extremely corrosive with copper, zinc and aluminum compounds. It can be flammable with mercury. In case of emergency, avoid leakage immediately, and do not contact skin and clothing.

**Storage:** MMA can be stored in stainless tanks or steel drums for 1 year without losing its properties. MMA should be kept in a cool, dry and well-ventilated place.

### APPLICATION FIELDS

- Pharmaceuticals
- Photography
- Surfactants
- Solvents
- Explosive Materials

### ACCIDENTAL RELEASE MEASURES

Highly flammable. And poisonous if swallowed and caustic if contacted to skin. In case of inhalation, get person out of the contaminated area to fresh air and rest. In case of skin exposure, wash contaminated areas with plenty of cold water. In case of eye exposure, flush eyes with plenty of water and seek medical attention. In case of a fire, use CO<sub>2</sub> and foam extinguishers for alcohols. After spillage, gently dilute it with water and neutralize by absorbing with diluted HCl and H<sub>2</sub>SO<sub>4</sub> acids.

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