



TRIMETHYLAMINE (TMA) (CH₃)₃N

PRODUCT SPECIFICATIONS

| | ANHYDROUS FORM 100% | ANALYTICAL METHOD 100% | SOLUTION 40% | ANALYTICAL METHOD 40% |
|------------------|--------------------------------|-----------------------------------|-------------------------|----------------------------------|
| Trimethylamin % | Min. 98.97 | Gas Chromatographic | Min.≈ 40-41 | Titrimetric |
| Ammonia % | Max. 0.0035 | Gas Chromatographic | Max. 0.002 | Gas Chromatographic |
| Monomethylamin % | Max. 0.0106 | Gas Chromatographic | Max. 0.005 | Gas Chromatographic |
| Dimethylamin % | Max. 0.0158 | Gas Chromatographic | Max. 0.006 | Gas Chromatographic |
| Water % | Max. 1 | - | Max. 60 | - |

PHYSICAL AND CHEMICAL PROPERTIES

| | 100% | 40% |
|---|----------------------------|--------------------|
| Appearance/Physical State | Transparent liquidized gas | Transparent liquid |
| Molecular Weight | 59 | - |
| Specific Gravity (15°C) | 0.635 | 0.880 |
| Boiling Point (°C) | 2.87 | 30.8 |
| Vapor Pressure (20 °C) kg/cm ² | 1.9 | 0.6 |
| Explosive Limits % | 2-11.6 | - |
| Freezing Point (°C) | -117.3 | 1.7 |
| Auto Flammability (°C) | 190 | - |
| Flash Point (°C) | -7 | -20 |

PACKAGING

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

HANDLING AND STORAGE

Handling: The products are 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, aluminum compounds. It can be flammable with mercury. In case of emergency, avoid leakage immediately, and do not contact skin and clothing.

Storage: TMA can be stored in stainless tanks or steel drums for 1 year. TMA should be kept in cool, dry and wellventilated places.

APPLICATION FIELD

- Catalyst in various processes
- Resins
- Disinfectant
- Floatation Agent
- Colin Salts

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 for medical attention. In case of a fire, use CO₂ and foam extinguishers for alcohols. After spillage, gently dilute it with water and neutralize by absorbing with diluted HCl and H₂SO₄ acids.

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