DEA 85% LFG
Diethanolamine

CAS No.: 111-42-2
Formula: $C_4H_{11}NO_2$

DESCRIPTION

DEA 85% LFG (Low Freeze Grade) is a refined diethanolamine blend formulated to maintain stability and handling performance in colder conditions. It is a colorless to pale yellow viscous liquid with a mild ammonia-like odor. The product is completely miscible with water and alcohols and functions as an effective neutralizing agent, corrosion inhibitor, and intermediate for various chemical syntheses.

KEY FEATURES

- Low-freeze formulation suitable for cool-climate transport and storage
- High purity ≥ 85 % for consistent reactivity in downstream processes
- Excellent solubility in water and alcohols
- Effective CO_2 / H_2S absorption and corrosion inhibition performance
- Compatible with a wide range of surfactant and amine systems
- Reliable handling and product stability under extended storage

APPLICATIONS

- Gas sweetening and acid-gas absorption systems
- Corrosion-inhibitor formulations for industrial fluids
- Intermediate for surfactants and emulsifiers
- Chemical synthesis for herbicides and pharmaceuticals

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	Colorless to pale yellow liquid
Colour	≤ 30 Pt-Co (GB/T 3143)
Diethanolamine Assay	≤ ≥ 85% wt (GC)
Water Content	≤ 15% wt (GB/T 6283)
Odor	Slight ammonia-like
Freezing Point (LFG Grade)	Below –5°C (Internal Method)
Solubility	Completely miscible with water and ethanol

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 220 kg drums
- 1,000 / 1,100 kg IBC totes
- 20 – 24 MT flexitank

STORAGE

Store in tightly sealed containers in a cool, dry, well-ventilated area away from direct sunlight and moisture. Avoid contact with copper, aluminum, or their alloys. Shelf life is six months under standard conditions. Handle with protective equipment to prevent contact with skin and eyes.

SAFETY & HANDLING

Refer to the corresponding Safety Data Sheet (SDS) for details on hazards, protective measures, and first aid.