

Technical Data Sheet

Diethanolamine (DEA) · CAS 111-42-2 · C₄H₁₁NO₂

TECHNICAL DATA SHEET (DRAFT) - Diethanolamine (DEA)

Product Grade: Industrial/Technical Grade

Chemical Formula: C₄H₁₁NO₂

CAS Number: 111-42-2

PHYSICAL PROPERTIES

- Appearance: Colorless liquid / White solid
- Purity (Assay): 99.0% Min
- Water Content: 0.2% Max
- Color (APHA): 15 Max
- Boiling Point: 268°C
- Freezing Point: 28.0°C
- Specific Gravity (30/4°C): 1.091 - 1.095

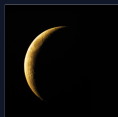
SPECIFICATIONS

Property	Limit	Method
Diethanolamine Content	≥ 99.0 wt%	GC
Monoethanolamine	≤ 0.5 wt%	GC
Triethanolamine	≤ 0.5 wt%	GC
Water	≤ 0.15 wt%	Karl Fischer
Color	≤ 15 Pt-Co	ASTM D1209

APPLICATIONS

Primary use in gas treating to remove H₂S/CO₂. Also used in the production of fatty acid alkanolamides for the detergent industry and as an intermediate for Glyphosate.

Note: These specifications are typical but not exhaustive. Batch-specific COA available upon request.



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