

# Diethanolamine

[CAS 111-42-2]

Molecular Weight : 105.2

Molecular Formula :  $\text{HN}(\text{CH}_2\text{CH}_2\text{OH})\text{CH}_2\text{CH}_2\text{OH}$

**Description**            A white solid at room temperature and a clear, hygroscopic liquid at above 28 °C

<b><u>Specification</u></b>	Diethanolamine	wt %	99.0 min
	MEA and TEA	wt %	0.5 max
	Water	wt %	0.15 max
	Colour	Pt-Co (APHA)	15 max

<b><u>Physical Properties</u></b>	Boiling point , 760mmHg	°C	269 *
	Melting point	°C	28.0
	Solubility in water, 20 °C	wt %	95.4
	Specific gravity, 30/20 °C		1.0919
	Viscosity, 30 °C	cp	350

**Applications**

- Absorbent of H<sub>2</sub>S and CO<sub>2</sub> for purifying natural gas in refinery and natural gas operations
- manufacture of petroleum demulsifiers, oil emulsifiers, waxes, polishes, coatings, surface-active agents in textile applications and cosmetics
- controlling pH of latex
- emulsions and in neutralising acid clays used in rubber compounding

**Packing**            In steel drums, 220kg net

\* (decomposition at this temperature)

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