

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

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

<u>Physical Properties</u>	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 H₂S and CO₂ 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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