

Methyldiethanolamine (MDEA)

EC name: 2,2'-methyliminodiethanol

CAS name: Ethanol, 2,2'-(methylimino)bis-

IUPAC name: 2,2'-(methylimino)diethanol

EC number: 203-312-7

CAS No.: 105-59-9

Product Description

Methyldiethanolamine is a colorless or pale yellow liquid with an ammonia-like odour, miscible with water, alcohol and benzene.

Item	Unit	Specification
Methyldiethanolamine	%	99,6 MIN
Secondary amines	%	0,05 MAX
Water	%	0,1 MAX
Colour	(Pt.-Co.)	Colorless-yellow
Density, at 20°C	g/cm ³	1,04G/CM3

Typical Physical Properties

Data represent typical physical properties only and should not be construed as product specifications.

Formula	C ₅ H ₁₃ NO ₂
Appearance	Colorless liquid
Molar mass	119.16 g mol ⁻¹

Property	Results
Physical state at 20°C and 1013 hPa	Liquid Colour: colourless Odour: Amine – like
Ocatanol/water partition coefficient	-1.08
Melting point	-21 Deg. C
Bolling point	243Deg. C
Flash point	(Din 51758) 137 Deg. C., (DIN 51755) 126
Explosion limits	lower 0.9/upper 8.4 vol. %
Vapour pressure	(40 Deg. C.) 0,026 MBAR
Ignition temperature	265°C
Viscosity (20°C)	101 MPO
Solubility in water (20 °C.)	fully miscible
PH value (at 100 GIL, 20 °C.)	11.5

Packaging

Metal drums: 215 kg / drum

Field of

- natural and process gas treatment (for the gas sweetening plant)

application

Storage and Handling

Fire preventions: Keep away from sources of ignition - No smoking.
Aerosol preventions: Ensure thorough ventilation of store and work areas.
Environmental precautions: Hermetic of equipment, product storage tanks, containers.
Segregate from acids and acid forming substances.
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.
Storage duration: 12 Months.
Data on the storage life specified in the safety data are not a contractual guarantee of the properties of the product.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal

Safety

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

For More Information

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