

File No.	TDS001
Revision	NA
Eff.Date	Jan 01 2018

Technical Data Sheet

Product name: N-Methylethanolamine (NMEA)

Synonyms

methylethanolamine;monomethylethanolamine;N-Methyl-2-ethanolamine;N-Methylaminoethanol;monomethylaminoethanol

Appearance

NMEA is a clear, colorless liquid with mild ammoniacal odour at room temperature.

Physical & Chemical properties

NMEA is competely miscible in water. It is also soluble in most organic solvents.

NMEA is a versatile, polyfunctional molecule that combines the characteristics of amines and alcohols. It is capable of undergoing reactions typical of both alcohols and amines, forming quaternary amines salts, soaps, esters and amides.

Specifications

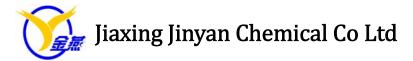
Property	Specification	Test Method
NMEA	99.5% min	GC
Water	0.3% max	ASTM D 1364
Color (APHA)	20 max	ASTM D 1209

Packing

Steel drum or PE drum -195 kgs net./drum ,IBC,Bulk

Chemical Physical properties

Property	Value		Property	Value
CAS#	109-83-1		Refractive index n _D ²⁰	1.4389
EINECS#	203-710-0		Density(20°C)	0.94 kg/l
Form	Liquid			13 cPoise
Color	Colorless		Viscosity(20°C)	1 mbar
Odour	Ammoniacal			Complete
Mol. weight	75.11		Vapor pressure(20°C)	357 ℃
Boiling point	157-163℃		vapor pressure(20 C)	337 0
Flash point	15/-163 C		Solubility in water	52.2 mbar
Explosion limits	74°C(DIN51755)		Critical temperature	-198,000 kJ/kmol
			Critical pressure	0.483 kcal/kg K
Ignition temperature	Lower LEL 1.6 vol%		Heat of formation	
	Upper UEL 19.8 vol%		Heat capacity(20°C)	0.187 W/m K
	350°C(DIN 51794)		neat capacity (20 C)	38.9 dyne/cm
	330 O(DIN 31794)	The	Thermal conductivity	



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	(20°C)	
	Surface tension(20°C)	

Storage

Carbon steel is adequate for storage of NMEA. Stainless AISI 316L is preferable if color stability is to be maintained over a long period. Copper and copper alloys should be avoided. For bulk storage a nitrogen atmosphere is necessary to prevent the absorption of moisture and discoloration.

Labeling Toxicology/Ecotoxicology

See Material Safety Data Sheet. See Material Safety Data Sheet.

Transport regulations Characteristics

See Material Safety Data Sheet. See Material Safety Data Sheet.

Applications

Coatings

In water- and solvent-based coatings, increases solubility of other components and enhances solution stability.

In cathodic electrodeposition systems to chain-extend high MW polyepoxides with a polyol.

Household Specialties and Personal Care, Textiles, and Lubricants

When reacted to form surface-active soaps, produces an excellent emulsifying and dispersing agent. In textiles, acts as a brightening agent in dyeing of polyester/cotton blends.

Pharmaceuticals

Widely used as intermediate for production of active pharmaceutical ingredients (e.g. antihistimines).

Technical Data Sheet-001 Supercedes TDS – NA

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guarantee is provided to the client that the product is adapted to the specific use for which it is intended by the client. The client should perform his own tests to determine the suitability for a particular purpose. Our only intension is to rapidly provide the user with information on the various application possibilities of our products. It being understood that the client should adapt the information to the specific conditions of their use and to the characteristics of other products with which they are mixed.