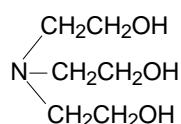


Technical Bulletin

TRIETHANOLAMINE-99% NF

[CAS 102-71-6]

STRUCTURE



Mol. wt. 149.19

DESCRIPTION

A clear, viscous, hygroscopic liquid at room temperature.

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Clear and substantially free of suspended matter	ST-30.1
Ash, sulfated, wt%	0.05 max.	ST-31.12
Assay, as wt% TEA	99.5 - 100.8	USP-NF
Color, Pt-Co	75 max.	ST-30.12
Diethanolamine, wt%	0.099 max.	ST-35.99
Refractive index, 20°C	1.4810 - 1.4860	ST-30.76
Residual Solvents	Passes	USP-NF <467>
Specific gravity, 25/25°C	1.1200 - 1.1280	ST-30.31
Triethanolamine, wt%	99 min.	ST-35.99
Water, wt%	0.2 max.	ST-31.53, 5

*Methods of Test are available from Huntsman Corporation upon request.

ADDITIONAL INFORMATION

Regulatory Information

See SDS for all regulatory information.

Shelf Life

The product should retain its conformance to sales specifications for a period of at least one year after date of manufacture if the product is stored at less than 100°F in its undamaged, unopened, factory packaged container.

In general, the user should determine the suitability of any chemical compound, no matter what the shelf life or length of time of storage. Each user should conduct a sufficient investigation to establish the suitability of any product for his intended use.

Typical Properties

Identification, IR	Passes USP-NF
Flash point, PMCC, °C (°F)	201 (395)
Melting point, °C (°F)	21 (70)
pH	11
Specific gravity, 20/20°C	1.126
Weight, lb/US gal, 20°C (68°F)	9.37
Vapor pressure, 20°C, mm Hg	<0.01
Viscosity, cSt, 25°C (77°F)	527

TOXICITY AND SAFETY

For information on the toxicity and safe handling of this product, read the Safety Data Sheet prior to use of the product.

HANDLING AND STORAGE

Triethanolamine-99% NF may be satisfactorily stored in stainless steel tanks using stainless steel pipes and pumps.

For longer term color stability, it is recommended that the product be stored under an inert atmosphere.

Low pressure steam coils in storage tanks and heat tracing of transfer lines should be provided in cases where low environmental temperatures may make pumping of the product difficult.

BIODEGRADABILITY AND ENVIRONMENTAL SAFETY

Triethanolamine-99% NF undergoes moderate biodegradation and is not expected to be persistent in the environment.

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