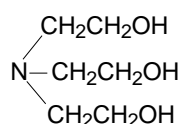


## Technical Bulletin

### TRIETHANOLAMINE-99%

[CAS 102-71-6]

#### STRUCTURE



#### DESCRIPTION

A clear, viscous, hygroscopic liquid at room temperature.

#### APPLICATIONS

An intermediate in the manufacture of cosmetics, surface-active agents, textile specialties, waxes and polishes, herbicides, petroleum demulsifiers, toilet goods, cement additives, cutting oils, and photographic film developers; corrosion inhibitor; dispersant for dyes, casein, shellac, and rubber latex; sequestering agents; a rubber chemicals intermediate.

### SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Clear and substantially free of foreign matter	ST-30.1
Color, Pt-Co	40 max.	ST-30.12
Composition, wt%		ST-35.99
Triethanolamine	99.0 min.	
Diethanolamine	0.099 max.	
Monoethanolamine	0.1 max.	
Equivalent weight	148 - 150	ST-5.5
Iron, ppm	10 max.	ST-37.1
Specific gravity, 20/20°C	1.1240 - 1.1270	ST-30.31
Water, wt%	0.2 max.	ST-31.53, 5

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

### TYPICAL PROPERTIES

#### Regulatory Information

See SDS for all regulatory information.

#### Typical Values

Boiling point, 760 mm Hg, °C	360
Flash point, PMCC, °F	395
Melting point, °C	21
pH	11
Vapor pressure, 20°C, mm Hg	<0.01
Viscosity, cSt, 25°C	527
Weight, 20°C, lb/gal	9.38

**TOXICITY AND SAFETY**

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

**HANDLING AND STORAGE**

Triethanolamine-99% may be satisfactorily stored in carbon steel, stainless steel, or aluminum tanks using steel pipes and pumps. Caution must be exercised, however, to keep the material in the anhydrous state to prevent severe corrosion to the carbon steel or aluminum tank and related equipment. A drier on the breathing nozzle is recommended to help maintain anhydrous conditions in the storage tank.

For longer term color stability, it is recommended that the product be stored under an inert atmosphere. Solid sediment may form upon standing. There should be circulation in the storage vessel to keep solids suspended.

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.

**SHIPPING DATA**

Product is available in coiled tank cars, tank wagons in certain areas, and steel drums of 520 pounds (235 kilograms) net weight. Small samples are available by contacting our sample department at 1-800-662-0924.

**BIODEGRADABILITY AND ENVIRONMENTAL SAFETY**

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

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**Samples 1-800-662-0924**

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