

Technical Bulletin**MONOETHANOLAMINE LCI**

[CAS 141-43-5]

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|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| STRUCTURE | H ₂ N-CH ₂ CH ₂ OH Mol. wt. 61.08 |
| DESCRIPTION | A clear, water-white, hygroscopic liquid with a mild ammoniacal odor. |
| APPLICATIONS | A high purity monoethanolamine for use in applications where guaranteed low levels of chloride and iron are required. |

SALES SPECIFICATIONS

| <u>Property</u> | <u>Specifications</u> | <u>Test Method*</u> |
|---------------------------------|--------------------------------------------------|---------------------|
| Appearance | Clear and substantially free of suspended matter | ST-30.1 |
| Color, Pt-Co | 15 max. | ST-30.12 |
| Chlorides, as Cl, ppm | 1 max. | ST-5.50 |
| Diethanolamine, wt% | 0.095 max. | ST-35.183 |
| Iron, ppm | 0.3 max. | ST-37.1 |
| Monoethanolamine, wt% | 99.5 min. | ST-35.183 |
| Sulfate (SO ₄), ppm | 5 max. | ST-5.49 |
| Water, wt% | 0.3 max. | ST-31.53, 6 |

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

ADDITIONAL INFORMATION**Regulatory Information**

See MSDS for all regulatory information.

Typical Values

| | |
|------------------------------|--------|
| Boiling Point, 760 mm Hg, °C | 170.5 |
| Flash Point, PMCC, °F | 204 |
| Melting Point, °C | 10.5 |
| pH | 11.8 |
| Specific Gravity, 20/20°C | 1.0179 |
| Vapor Pressure, mm Hg, 20°C | <1 |
| Weight, lb/gal, 20°C | 8.5 |
| Viscosity, cSt, 20°C | 23.6 |
| Aluminum, ppm | ≤0.3 |
| Calcium, ppm | ≤0.3 |
| Chromium, ppm | ≤0.3 |
| Copper, ppm | ≤0.3 |
| Fluoride, ppm | ≤0.5 |
| Potassium, ppm | ≤0.3 |
| Silicon, ppm | ≤0.3 |
| Sodium, ppm | ≤0.3 |
| Total Sulfur, ppm | ≤1 |
| Zinc, ppm | ≤0.3 |

TOXICITY AND SAFETY

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

HANDLING AND STORAGE

Monoethanolamine LCI 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.

SHIPPING DATA

Product is available in tank cars, tank wagons and drums. Small samples are available by contacting our sample department at 1-800-662-0924.

BIODEGRADABILITY AND ENVIRONMENTAL SAFETY

Monoethanolamine LCI undergoes moderate biodegradation and is not expected to be persistent in the environment.

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