



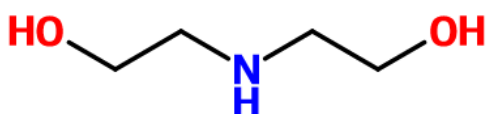
## Technical Data Sheet

# Diethanolamine Low Freezing Grade 80%

2,2'-iminodiethanol, Ethanol, 2,2'-iminobis-, DEA LFG, DEA

CAS Number: **111-42-2**

Formula:  $\text{HN}(\text{C}_2\text{H}_4\text{OH})_2$



### DESCRIPTION:

Diethanolamine Low Freezing Grade (DEA LFG) is a variation of TEA commercial grade which blend of Diethanolamine and 20% water to lower the freezing point for easier handling. DEA LFG80% is a clear, colorless and hygroscopic liquid, with a mild ammonia-like odor.

### APPLICATION:

Diethanolamine Low Freezing Grade (DEA LFG) is used for a chemical intermediate in the manufacture of detergents, personal care products, surfactants, agricultural chemicals (herbicides), gas treating as a gas scrubber in refinery and corrosion inhibitors.

### PHYSICAL PROPERTIES:

Form	Liquid
Appearance	Clear
pH	11.5
Melting Point, °C	-10
Specific Gravity, 30/20°C	1.0919
Vapor Pressure, mm Hg, 20°C	<0.01

### REGULATORY INFORMATION:

IMDG Classification	Not Regulated
HMIS Code	2-1-0
HS Code	2922.12.00



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## **HANDLING AND**

## **STORAGE:**

Keep the material in the anhydrous state to prevent severe corrosion to the carbon steel or aluminum tank and related equipment. For longer term color stability, it is recommended that the product be stored under an inert atmosphere.

Diethanolamine Low Freezing Grade has a shelf life of 12 months under unopened drum. The product should be re-evaluated after 12 months to reconfirm the product quality, if properly stored and protected from contamination.

For storage conditions, Product is hygroscopic, water contamination should be avoided. Keep container tightly closed without air contamination. The periods of exposure to high temperatures should be minimized. Avoid directly contact with sunlight and higher temperature. *May discolor after lengthy storage.*

## **PACKAGING:**

Product is available in bulk truck, ISO Tank, IBC tank, steel drum with epoxy phenolic coating. Because of high freezing point of product, steel drum without coating liner (SDNC) is available since it is a particular packaging used for thawing requirement in cold weather country or winter season. Therefore, user should assume product quality concerns of coloration and deterioration. The product in SDNC should be short term storage.

## **SAFETY:**

Wear appropriate personal protective equipment, including appropriate respiratory protection. Avoid contact with skin, eyes or clothing. For information on the toxicity and handling of this product, please find in the Material Safety Data Sheet.

## **TERMS & CONDITIONS:**

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