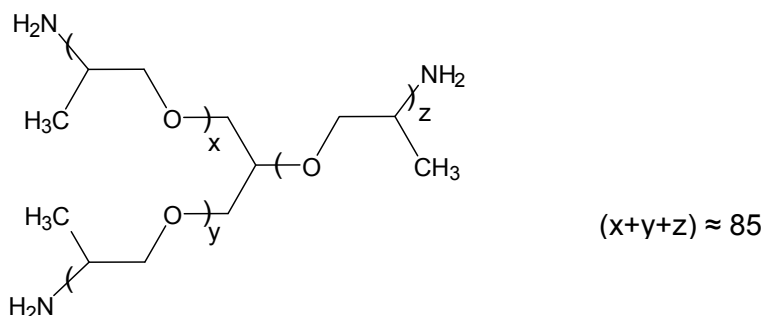


**Technical Bulletin****JEFFAMINE® T-5000 Polyetheramine**

**JEFFAMINE® T-5000** polyetheramine is a trifunctional primary amine of approximately 5000 molecular weight. It is clear, almost colorless, viscous, liquid product.



- APPLICATIONS**
- Crosslinker for polyurea
  - Co-reactant in epoxy systems where adhesion promotion and flexibility are important
  - Surfactant and corrosion inhibitor applications

- BENEFITS**
- Low color
  - Increased peel strength in epoxy adhesives
  - Increased toughness

**SALES SPECIFICATIONS**

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Colorless to pale yellow liquid with slight haze permitted	ST-30.1
Color, Pt-Co	75 max.	ST-30.12
Primary amine, % of total amine	97 min.	ST-5.34
Total acetylatables, meq/g	0.57 – 0.64	ST-31.39
Total amine, meq/g	0.50 – 0.54	ST-5.35
Water, wt%	0.25 max.	ST-31.53, 6

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

**ADDITIONAL INFORMATION****Regulatory Information**

DOT/TDG Classification	Not Regulated
HMIS Code	2-1-0
CAS Number	64852-22-8
US, TSCA	Listed
Canadian WHMIS Classification	D2B
Canada, DSL	See MSDS
European Union, EINECS/ELINCS	Polymer Exempt
Australia, AICS	Listed
Japan, ENCS	Contact Huntsman Regulatory
Korea, ECL	Listed
China, IECSC	Listed

**Typical Physical Properties**

AHEW (Amine hydrogen equivalent wt.), g/eq	952
Equivalent wt. with isocyanates, g/eq	1904
Viscosity, cSt, 25°C (77°F)	819
Flash point, PMCC, °C (°F)	213 (415)
Density, g/ml (lb/gal) 25°C	0.997 (8.31)

## TOXICITY AND SAFETY

For additional information on the toxicity and safe handling of this product, consult the Material Safety Data Sheet (Safety Data Sheet in Europe) prior to use of this product.

## HANDLING AND STORAGE

### Materials of Construction

#### At temperatures of 75-100°F (34-38°C)

Tanks	Carbon steel
Lines, valves	Carbon steel
Pumps	Carbon steel
Heat exchange Surfaces	Stainless steel
Hoses	Stainless steel, polyethylene, polypropylene, and TEFLON®
Gaskets, packing	Polypropylene or TEFLON® (elastomers such as neoprene, Buna N, and VITON® should be avoided)
Atmosphere	Nitrogen or dry air

#### At temperatures above 100°F (38°C)

Tanks	Stainless steel or aluminum
Lines, Valves	Stainless steel
Pumps	Stainless steel or Carpenter 20 equivalent
Atmosphere	Nitrogen

<sup>1</sup>VITON® and TEFLON® are registered trademarks of Dupont.

JEFFAMINE® T-5000 polyetheramine may be stored under air at ambient temperatures for extended periods. A nitrogen blanket is suggested for all storage, however, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide. It should be noted that pronounced discoloration is likely to occur at temperatures above 140°F (60°C), whatever the gaseous pad.

Cleanout of lines and equipment containing JEFFAMINE T-5000 polyetheramine can be accomplished using warm water and steam. In the event of spillage of this product, the area may be flushed with water. The proper method for disposal of waste material is by incineration with strict observance of all federal, state, and local regulations.

## AVAILABILITY

JEFFAMINE T-5000 polyetheramine is available in tank cars, tank wagons, 55-gallon (208L) drums of 440 pounds (200kg) net weight, and 5-gallon (19L) cans. Samples are available in North America and Asia by contacting our sample department at 1-800-662-0924. Samples in other locations, including Europe, are available by contacting any Huntsman Corporation sales office.

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