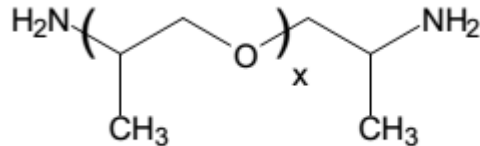


Description

ZHENGDA[®] ZD-123 Polyether Amine

ZHENGDA ZD-123 Polyether Amine (also called Amine-terminated Polyether) is characterized by repeating oxypropylene units in the backbone. As shown by the representative structure, ZHENGDA ZD-123 Amine-terminated Polyether is a difunctional, primary amine with an average molecular weight of about 230. The primary amine groups are located on secondary carbon atoms at the end of the aliphatic polyether chain.



$x \approx 2.5$

APPLICATIONS

- Epoxy curing agent
- Reacts with carboxylic acids to form hot melt adhesives
- Reacts quickly with isocyanates
- Salts may be formed readily for surfactant use

BENEFITS

- Low viscosity, color and vapor pressure
- Completely miscible with a wide variety of solvents, including water
- Provides tough, clear, impact resistant coatings, castings, and adhesives
- Coatings are free of surface blush prevalent with many amine curing agents

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>
Appearance	Colorless to pale yellow liquid with slight haze permitted
Color, Pt-Co	25 max.
Primary amine, % of total amine	95 min.
Total acetylatables, meq/g	8.3-8.7
Total amine, meq/g	8.1 – 8.7
Water, wt%	0.25 max.

ADDITIONAL INFORMATION

AHEW (Amine hydrogen equivalent wt.), g/eq	60	Flash point, PMCC, °C (°F)	121 (250)
Equivalent wt. with isocyanates, g/eq	120	pH, 5% aqueous solution	11.7
Viscosity, cSt, 25°C (77°F)	9.5	Refractive index, n _D ²⁰	1.4466
Density, g/ml (lb/gal), 25°C	0.948 (7.90)	Vapor pressure, mm Hg/°C	1/100
CAS Number	9046-10-0		10/133

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

ZHENGDA® ZD-123 Amine-terminated Polyether 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 ZHENGDA ZD-123 Amine-terminated Polyether 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

ZHENGDA ZD-123 Amine-terminated Polyether is available in tank cars, tank wagons, 55-gallon (208L) drums of 430 pounds (195kg) net weight, and 5-gallon (19L) cans.

Samples are available by contacting our office.

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