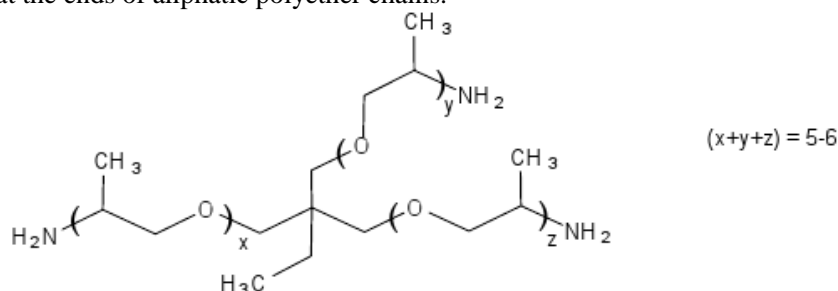


Description

ZHENGDA[®] ZT-143 Amine-terminated Polyether

ZHENGDA ZT-143 Polyether Amine (also called Amine-terminated Polyether) is characterized by repeating oxypropylene units in the backbone. As shown by the structure, ZHENGDA ZT-143 is a trifunctional primary amine having an average molecular weight of approximately 440. Its amine groups are located on secondary carbon atoms at the ends of aliphatic polyether chains.



APPLICATIONS

- Epoxy curing agent
- Anti-sag agent for polyurethanes

BENEFITS

- Low color and vapor pressure
- Completely miscible with a wide variety of solvents, including water
- Improves flexibility and strength

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>
Appearance	Colorless to pale yellow with slight haze
Color, Pt-Co	50 max.
Primary amine, % of total amine	90 min.
Total amine, meq/g	6.1 min. – 6.8 max.
Water, wt%	0.25 max.

ADDITIONAL INFORMATION

pH, 5% aqueous solution	11.6	AHEW (amine hydrogen equivalent wt.), g/eq	81
Refractive index, n_D^{20}	1.46	Viscosity, cSt, 25°C (77°F)	72
Vapor Pressure, mmHg/°C	1/181	Density, g/ml (lb/gal), 25°C	0.978 (8.12)
	5/207	Flash point, PMCC, °C (°F)	196 (385)
CAS Number	39423-51-3		

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 ZT-143 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 ZT-143 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 ZT-143 Amine-terminated Polyether 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 by contacting our office.

Main Offices : ZIBO ZHENGDA POLYURETHANE Co.,Ltd.

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