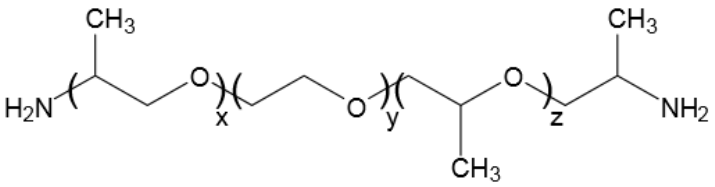
Description

ZHENGDA® ZED-901 Polyether Amine

ZHENGDA ZED-901 (Equal To Huntsman Jeffamine ED900)

Polyether Amine (also called Amine-terminated Polyether) is an aliphatic polyether diamine derived from a propylene oxidecapped polyethylene glycol. It is water soluble, with an approximate molecular weight of 900 and a melting point around room temperature. Polyetheramines of this type are useful in a variety of polymers because of the hydrophilicity and flexibility imparted by the polyethylene glycol chain. In polyamides, for example, antistatic properties and moisture vapor transmission can be enhanced by incorporation of PEG-based polyetheramines.



y ≈ 12.5, (x+z) ≈ 6

APPLICATIONS

- Modification of polyamides for enhanced hydrophilicity
- Preparation of biocompatible articles and coatings
- Preparation of hydrogels with isocyanates

BENEFITS

- Flexibility from polyether
- Hydrophilicity from polyethylene glycol
- Reactivity of the amine end group
- Biocompatibility of polyethylene glycol

SALES SPECIFICATIONS

Property	Specifications
Appearance	Colorless to pale yellow liquid with slight haze permitted
Color, Pt-Co	100max.
Primary amine, % of total amine	95 min.
Total acetylatables, meq/g	2.10-2.40
Total amine, meq/g	1.80-2.25
Water, wt%	0.35 max.

ADDITIONAL INFORMATION

AHEW (Amine hydrogen equivalent wt.), g/eq	250	Flash point, PMCC, °C (°F)	174 (345)
Viscosity, cSt, 25°C (100°F)	119	pH	11.4
Density, g/ml (lb/gal), 38°C	1.065 (8.88)	CAS Number	65605-36-9
Melting point, °C (°F)	22(72)		

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® ZED-901 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 ZED-901 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 ZED-901 Amine-terminated Polyether is available in 5-gallon (19L) cans, and 55-gallon (208L) drums of 450 pounds (205kg) net weight.

Samples are available by contacting our office.

Main Offices : ZIBO ZHENGDA POLYURETHANE Co.,Ltd.

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