

Technical Bulletin

XTJ-435 Chemical Intermediate

XTJ-435 chemical intermediate is a relatively hydrophobic monoamine of about 325 molecular weight derived from a propylene oxide adduct of a C₁₂₋₁₄ alcohol.

APPLICATIONS

- Chemical intermediate

BENEFITS

- Higher hydrophobicity for use in oil- and solvent- based formulations
- Amine end group more reactive than alcohol
- Colorless, low viscosity liquid at ambient temperatures

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Colorless to pale yellow liquid with a slight haze	ST-30.1
Color, Pt-Co	100 max.	ST-30.12
Total acetylatables, meq/g	3.02 – 3.21	ST-31.39
Total amine, meq/g	2.80 – 3.20	ST-5.22
Primary amine, % of total amine	96 min.	ST-5.34
Water, wt. %	0.5 max.	ST-31.53

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

ADDITIONAL INFORMATION

Regulatory Information

DOT/TDG Classification	See MSDS
HMIS Code	3-1-0
CAS Number	Proprietary
US, TSCA	SNUR**
Canadian WHMIS Classification	Not Determined
Canada, DSL	Not Determined
European Union, EINECS/ELINCS	Not Listed
Australia, AICS	Not Listed
Japan, ENCS	Not Listed
Korea, ECL	Not Listed
China, IECS	Not Listed

Typical Physical Properties

AHEW (amine hydrogen equivalent wt.), g/eq	157	
Molecular weight	325	
Flash point, COC, °C (°F)	355 (671)	
Density, g/ml (lb/gal), 25°C	0.907 (7.56)	
Viscosity, cSt, 20°C	15.4	
	38°C	7.8
	66°C	7.01
pH, 1% solution	11	
Pour point, °C (°F)	-17 (2)	
HLB value	1	
Vapor pressure, mm Hg/ 205°C	15.4	

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 ^{®1}
Gaskets, packing	Polypropylene or TEFLON ^{®1} (elastomers such as neoprene, Buna N, and VITON ^{®1} 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

¹ Registered trademark of Dupont

XTJ-435 chemical intermediate 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 XTJ-435 chemical intermediate 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

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.

****OTHER IMPORTANT INFORMATION**

On January 22, 1998, the US EPA issued a proposed rule promulgating Significant New Use Rules (SNURs) under Section 5(a)2 of the Toxic Substance Control Act (TSCA) for a number of new products, including XTJ-435 chemical intermediate (63 FR 3394). In this SNUR, manufacture and used of our product, identified as PMN Number P-96-1430 and further referenced under 40 CFR 721.641, is restricted solely to use as a chemical intermediate. Under the terms of the SNUR, no other industrial, commercial or consumer activities are permitted by EPA for XTJ-435 chemical intermediate. **In compliance with this regulatory citation, Huntsman offers XTJ-435 chemical intermediate to our customer for use only as a chemical intermediate.**

5228-0208

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