

Technical Bulletin

HUNTSMAN

TRIPROPYLENE GLYCOL, TPG Acrylate Grade

GENERIC NAMES	Tripropylene Glycol
DESCRIPTION	Tripropylene Glycol is a co-product in the production process of monopropylene glycol.
APPLICATIONS	A chemical intermediate and solvent with a variety of applications.

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method *</u>
Acidity (as acetic acid), wt. %	0.0030 max.	TM01-04
Appearance	Substantially free of suspended matter	TM10-02
Aldehydes ppm	20 max.	TM05-01
Assay as TPG, wt. %	99.0 min.	TM05-05
Carbonyls, ppm	100 max	TM05-02
Chlorides (Inorganic) as Cl, ppm	5.0 max.	TM01-12
Color, APHA, Pt-Co	20 max.	TM01-01
Dipropylene Glycol, wt. %	1.0 max.	TM05-05
Propylene Glycol, wt. %	0.5 max	TM05-05
Tetrapropylene Glycol and heavier, wt. %	1.0 max.	TM05-05
Iron, ppm	1 max.	TM01-28
Peroxide, ppm	15 max.	TM05-03
Water Content, wt. %	0.2 max	TM01-05

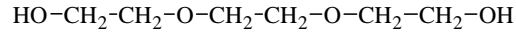
* Test methods are available upon request.

TRIPROPYLENE GLYCOL

TYPICAL PROPERTIES

Chemical Properties

Structure



3 (D1 - Me)

Molecular Weight

192

Physical Properties

Boiling range,

ASTM, °C, IBP

263 min.

ASTM, °C, DP

280 max.

Flash point, PMCC, °F

290

Freezing point, °C

-80 °C, Supercools

Refractive index, 25°C

1.454

Specific gravity, 25/25°C

1.0125 min.

1.0250 max.

Specific heat, 0°C, cal/gm/°C

0.547

Vapor pressure, 20°C, mm

0.004

Hg

Viscosity, 20°C, cp

60.6

Water solubility, %

>10

Weight, 20°C, lb/gal

8.67

Regulatory Information

DOT Classification

not regulated

Freight Classification

tripropylene glycol

HMIS Code

1-1-0

CAS Number

248-44-0

TSCA Inventory

listed on or exempt.

WHMIS Classification

not regulated

Canadian DSL

listed on or exempt.

European EINECS

listed on or exempt.

Australian AICS

listed on or exempt.

Japanese MITI

listed on or exempt.

PRODUCT SAFETY POLICY

It is the product safety policy of Huntsman Corporation to provide our customers with information on the safe handling and use of our products. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product and adequate safety procedures should be followed. Information on the toxicity, environmental and industrial hygiene aspects of our products may be found in the MSDS.

HANDLING AND STORAGE

Precautionary measures include: use only with adequate ventilation; avoid breathing vapor, mist or gas; avoid contact with eyes, skin and clothing; keep container closed; and wash thoroughly after handling.

SHIPPING

Product is available in barges, tank cars and tank trucks, and 55-gallon non-returnable drums, 475 pounds net weight. DOT label required: None. Freight classification: Tripropylene glycol. Certain government regulations may apply at the time of shipment.