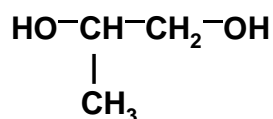


Technical Bulletin**Propylene Glycol – USP**

Generic: 1,2 propanediol

STRUCTURE**DESCRIPTION**

A relatively nontoxic liquid that is practically colorless, odorless, and tasteless.

APPLICATIONS

A solvent for flavors, extracts, drugs, and food antioxidants; a heat transfer medium; an emollient and humectant and plasticizer for tobacco products, baked goods, coconut, cellophane, cork, adhesives, and paper products; a lubricant and mold inhibitor for food processing equipment; a humectant for pet food.

SALES SPECIFICATIONS

This product meets the requirements of the Propylene Glycol monograph listed in the United States Pharmacopoeia (USP), latest edition, European Pharmacopoeia (EP), and Food Chemicals Codex (FCC).

Property	Specifications	Test Method *
Acidity (as acetic acid), wt.%	0.002 max.	ST-31.46, B
Appearance	Substantially free of suspended matter	ST-30.1
Ash, wt.%	0.005 max.	ST-31.12
Chlorides as Cl, ppm	0.5 max.	ST-4.44
Color, Pt-Co	10 max.	ST-30.12
Heavy metals as Pb, ppm	5 max.	ST-31.30
IR spectra	Passes	USP
Propylene Glycol, area % by gas chromatography	99.5 min.	ST-35.102
Specific gravity, 25/25°C	1.0350 min. 1.0370 max.	ST-30.31
Sulfate, ppm	60 max.	USP
Volatile organic impurities	Passes	USP-NF
Water, wt.%	0.2 max.	ST-31.53

* Methods of test are available from Huntsman upon request.

ADDITIONAL INFORMATION

Regulatory Information	
DOT Classification	Not regulated
Freight Classification	Propylene Glycol
HMIS Code	0-1-0
CAS Number	57-55-6

Chemical Control Laws	
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

Physical Properties	
Arsenic, ppm	1 max.
Boiling range ASTM, °C, IBP ASTM, °C, DP	185 min. 189 max.
Flash point, PMCC, °F	212
Freezing point, °C	< -76
Molecular weight	76
Refractive index, 20°C	1.4310 min. 1.4330 max.
Vapor pressure, 20°C, mm Hg	< 1
Viscosity, 20°C, cp	60
Water solubility, %	> 10
Weight, 20°C, lb/gal	8.64

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

HANDLING, STORAGE, AND SHIPPING PRECAUTIONS

Propylene Glycol - USP is a high-purity material, which must be handled with special precautions to avoid contamination. Under ordinary conditions, mild steel is a satisfactory material of construction; however, for long-term storage and where iron contamination and color are objectionable, stainless steel or aluminum vessels are recommended. For additional information on handling and storage of Propylene Glycol, please contact the Huntsman Technical Service Section. Product is available in barges, lined tank cars and dedicated tank trucks. Certain government regulations may apply at the time of shipment.

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For Your Protection**HEALTH AND SAFETY**

*The Safety and Health information in this data sheet does not contain sufficient detail for safe handling in all cases. For detailed safety and health information refer to the **Material Safety Data Sheet** for this product.*

EMERGENCY CALLS: Huntsman Emergency Response Center: 800-328-8501, 409-722-8381 / CHEMTREC - Spills, Leak, Fire 800-424-9300 (in USA and Canada)

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October 26, 2009