



Unidad Industrial Coatzacoalcos

## SALES SPECIFICATION

EVC-043

### TRIETHYLENE GLYCOL

12/08/20

1 of 2

Revision

11

**FORMULA:**  $\text{OCH}_2\text{-CH}_2\text{O}(\text{CH}_2\text{-CH}_2\text{OH})_2$

**MOL WT.:** 150.17

### DESCRIPTION

Clear and hygroscopic, colorless, and practically odorless liquid.

### APPLICATIONS

Due to its high boiling point, solubility properties, low volatility, and toxicity it is used as a solvent and plasticizer. It is a good solvent for the nitrocellulose, resins, and rubbers, because it contains two ether groups and two OH- groups. It is miscible with water and various organic solvents; therefore, it is applied in the formulation of inks, textile additives, press ink, etc. It is widely used as plasticizer for cork and cellulose derivatives, resins, glues, etc., where it not only provides the desired flexibility, but it helps to preserve it for an extended period. It is also used as a raw material in the plasticizers manufacture applicable to PVC and synthetic rubber, among others.

It is an effective hygroscopic agent and is used as de-humidifier of the natural gas and air flows that do not require convenience refrigeration.

The U.S. Food and Drug Administration (FDA) approves its use in the manufacture of adhesives, resin and polymer cover, paper and cardboard, cellophane, closing and covers, and pesticides that will be contact with food.

### SPECIFICATIONS/UNIT

### TEST METHOD

Appearance	Clear Liquid		MP-000
Purity, wt %	98.0	Min.	100 - impurities
Diethylene glycol, wt %	1.0	Max.	MP-100
Water, wt %	0.10	Max.	MP-002
Color, Pt-Co	40	Max.	MP-001
Ashes, wt %	0.01	Max.	MP-104
Acidity as Acetic Acid, wt %	0.01	Max.	MP-108
Iron, ppm (mg/kg)	1.0	Max.	MP-105



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Specific gravity, 20/20 °C	1.1240	Min.	MP-004
	1.1260	Max.	
Boiling Range, °C @ 101.3 kPa (760 mm Hg) <sup>(1)</sup>			MP-005
I.B.P. <sup>(2)</sup>	278.0	Min.	
D.P.	300.0	Max.	

#### Notes:

(1) Correct for deviation of the barometric pressure from normal by adding algebraically the correction calculated as follows: Correction = 0.045 (760 - P)

P = barometric pressure in mm Hg

(2) I.B.P.: initial boiling point      D.P.: dry point

#### AVAILABILITY

In bulk or in plastic drums containing 230 kg net wt (507.2 lb net) or 1 t containers.

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