



Unidad Industrial Coatzacoalcos

SALES SPECIFICATION

EVC-040

ETHYLENE GLYCOL FIBER GRADE

12/07/20

1 of 2

Revision

11

FORMULA: HO-CH₂-CH₂-OH

MOL WT: 62.07

DESCRIPTION

Colorless and virtually odorless and hygroscopic liquid.

APPLICATIONS

Raw material in the production of synthetic polyester fibers, polyethylene glycols, polyurethane systems, and PET resin.

SPECIFICATIONS

TEST METHOD

Appearance		Clear liquid		MP-000
Odor ⁽¹⁾		Characteristic		MP-001
Purity, wt %		99.8	Min.	MP-100
Diethylene Glycol, wt %		0.05	Max.	MP-100
Water, wt %		0.05	Max.	MP-002
Color, Pt-Co		5	Max.	MP-001
Ashes, wt %		0.003	Max.	MP-104
Acidity as Acetic Acid, wt %		0.001	Max.	MP-108
Iron, ppm (mg/kg)		0.05	Max.	MP-105
Specific Gravity, 20/20 °C		1.1151	Min.	MP-004
		1.1154	Max.	
Transmittance @	220 nm, %	70	Min.	MP-103
	250 nm, %	90	Min.	
	275 nm, %	94	Min.	
	350 nm, %	98	Min.	
Absorbance @	275 nm	3.5	Max.	MP-103
	350 nm	0.8	Max.	
	420 nm	0.8	Max.	
Boiling Range, °C @ 101.3 kPa (760 mm Hg) ⁽²⁾				MP-005
I.B.P. ⁽³⁾		196	Min.	
D.P.		199	Max.	
Chlorides, ppm (mg/kg)		0.1	Max.	MP-107



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Sulfates, ppm (mg/kg)	20	Max.	MP-109
Refractive Index @ 20 °C	1.4290	Min.	MP-110
	1.4330	Max.	
Appearance at black Light	Without fluorescence		MP-000
Color after 4 h ebullition, Pt-Co	20	Max.	MP-112
Acid number, mg KOH/g	0.03	Max.	MP-108
pH, 50% aqueous solution @ 25 °C	6.0	Min.	MP-003
	7.5	Max.	
Aldehydes, ppm (mg/kg)	10	Max.	MP-106

Notes:

- (1) Performed at room temperature.
- (2) 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.
- (3) 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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