Propylene glycol USP

Food Grade

1. IDENTIFICATION

CHEMICAL NAME: PROPYLENE GLYCOL USP (***U**nited **S**tates **P**harmacopoeia*)

CHEMICAL FORMULA: $C_3H_8O_2$

CAS No.: 57-55-6

EINECS No.: 200-338-0

MOLECULAR WEIGHT: 76,09 g/mol

OTHER DESIGNATIONS: Propane-1,2-diol, 1,2-propanediol, 1,2-Dihydroxypropane, 1,2-propylene glycol, 2-hydroxy-propanol, propanediol, methyl ethyl glycol.

2. FEATURES

METHOD		MEASUREMENTS	VALOR	UNITS	TOLERANCE
Visual	LCQ-200	Appearence	Clear liquid without suspended matter	-	-
GLC	LCQ-201	Purity (1,2-Propylene glicol) (USP)	99,5	%m/m	Minimum
ASTM D 4052-96	LCQ-203	Density 25/25 ºC (USP)	1,036	-	+/- 0,001
ASTM D 1364-95; ASTM E203-75	LCQ-204	Water content (USP/EP)	0,2	%m/m	Maximum
(*)		Acidity (USP, 10 mL product)	0,20	mL NaOH 0,1N	Maximum
(*)		Sulphate content (USP)	60	mg/Kg	Maximum
(*)		Chloride content (USP)	70	mg/Kg	Maximum
(*)		Heavy Metals Content (USO/EP)	5	mg/Kg	Maximum
(*)		IR Identification (USP)	Conformed	-	-
(*)		Ignition residue (USP, 50g product)	3,5 (70	mg ppm	Maximum Maximum)
(*)		Volatile Organic Contaminants (USP)	Conformed	-	-

Typical Features

METHOD	MEASUREMENTS	VALOR	UNITS	TOLERANCE
ASTM D4052	Density at 20 ºC	1036	Kg/m^3	-
-	Boiling Point (EP)	184 – 189	ºC	-
EP	Red. Substances (EP)	Conformed	-	-
EP	Oxid. Substances (EP)	Conformed	-	-
EP	Sulphated Ashes (EP)	100	mg/Kg	Maximum
-	Refractive Index nD20 ºC	1,432	-	+/- 0,001
EP	Acidity (EP)	0,05	mL NaOH 0,1N	Maximum
D101370	Acidity (such as acetic acid)	0,002	%m/m	Maximum

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METHOD	MEASUREMENTS	VALOR	UNITS	TOLERANCE
ASTM D1209	Colour (Pt-Co Scale)	10	-	Maximum
-	Arsenic	3	mg/Kg	Maximum
-	Iron	0,3	mg/Kg	Maximum
D100687	Dimer, trimer and higher polymer	0,1	%m/m	Maximum
Visual	Water solubility at 25 ºC	Overall Miscible in all proportions in water, acetone and chloroform		

3. APPLICATION

Manufacture of toothpaste, cosmetics for skin, shampoos and perfumes;

Preservative for cosmetic emulsion;

Solvent for fragrance;

Solvent for hydrosoluble vitamins;

Lubricant for machines in the cosmetic industry;

Extraction agent for active ingredients of natural products.

4. PRESENTATION

- Drums of 200 Kg
- IBC 1000 Kg