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Propylene glycol (PG)

Properties and Applications:

It is a colorless liquid with steady viscosity and good water absorption. It is nearly odorless, inflammable and minutely toxic. Its viscosity (20°C°), specific heat capacity (20°C) and latent heat of vaporization (101.3kpa) are respectively 60.5mpa.s, 2.49KJ/(kg. °C) and 711KJ/kg. It can be mixed and solved with alcohol, water and various organic agents.

PG is the raw material for preparing unsaturated polyester resin, plasticizer, surface active agent, emulsifying agent and demulsifying agent. It can also be used as mould inhibitor, antiseptic for fruit, ice inhibitor and moisture preserving agent for tobacco.

Specifications: (It conforms to the Quality System Standard: ISO9001:2000)

Item	Index	
	USP Grade	Tech Grade
Colourity (Pt-Co) No., max	10	16
PG content %, min	99.5	99.0
Relative density d_{20}^{20}	1.037-1.039	1.036-1.039
Index of refraction	1.430-1.434	1.430-1.435
Moisture %, max	0.2	0.2
Alkalinity (as OH) mmol/100g, max	0.04	0.05
Distillation range (IBP-DP) °C	184-189	183-189
Burning Residues %, max	0.010	0.012
Sulfate (Na ₂ SO ₄) ppm, max	13	--
Cl ppm, max	1	--
As ppm, max	5	--
Pb ppm, max	5	--
Fe ppm, max	0.3	--
Appearance	Colorless, Viscous, transparent liquid	

Package, Storage and Transportation

It should be packed in galvanized iron drums with the net weight of 215kg/drum. This product can not spontaneously combust but absorb moisture easily when uncovered. It can be dealt with as a low toxic chemical product. Notice: Our USP PG is made from propylene oxide and methyl alcohol, so it has a little odor of methyl alcohol. If you do not have any requirement about methyl alcohol, you can use our product. The applications of our USP PG: Material for bulk pharmaceuticals, Industry. Our USP PG should not be used in: Cosmetics, Essence, Spices, Perfume and Food additives.