PG USP/EP(Propylene glycol USP/EP grade)




Product Overview

DOW PuraGuard™ Propylene Glycol (PG) USP/EP is a pharmaceutical grade of Monopropylene Glycols (PG or MPG) with a specified purity greater than 99.8%.
DOW PuraGuard™ PG USP/EP is tested for compliance with specifications of:

United States Pharmacopeia (USP)
European Pharmacopoeia (EP)
Japanese Pharmacopoeia (JP)
Food Chemical Codex (FCC)

It also complies with:

Brazilian Pharmacopoeia (FB)
other pharmaceutical, cosmetic and food regulations in the global markets where it is sold

It is listed by the Personal Care Products Council† as an approved ingredient in cosmetics, and its use is reviewed by the Cosmetic Ingredient Review (CIR). DOW PuraGuard™ USP/EP is Kosher and complies with Halal requirements.
DOW PuraGuard™ USP/EP is an important ingredient for a multitude of uses, including:

Solvent for aromatics in the flavor-concentrate industry
Wetting agent for natural gums
Ingredient in the compounding of citrus and other emulsified flavors
Solvent in elixirs and pharmaceutical preparations
Solvent and coupling agent in the formulation of sun screen, lotion, shampoos, shaving creams and other similar products
Emulsifier in cosmetic and pharmaceutical creams
Ingredient for low-temperature heat-transfer fluids involving indirect food contact, such as brewing and dairy uses, as well as refrigerated grocery display cases
Very effective humectant, preservative and stabilizer in semi-moist pet food (with the exception of cat food), bakery goods, food flavorings and salad dressings

Applications

Heat Transfer Fluids
Fragrance, Cosmetics and Personal Care
Food and Flavorings
Pet Food/Animal Feed
Pharmaceutical
Other Applications

Packaging

DOW PuraGuard™ Propylene Glycol USP/EP is available from Dow in various quantities. Please contact us for details on availabilities in your region.

Physical Properties*

Physical Properties	Units	Propylene Glycol USP/EP (PG USP/EP)
Chemical Name	-	1,2-propanediol
Formula	-	$C_3H_8O_2$
CAS Number	-	57-55-6
EINECS Number	-	200-338-0
Molecular Weight	g/mol	76.1
Boiling Point	760 mm Hg, °F	369.3
	760 mm Hg, °C	187.4
Vapor Pressure	mm Hg, 77°F (25°C)	0.13
Evaporation Rate	(n-Butyl Acetate = 1)	1.57E-02

*Note: These properties are laboratory results on pure compounds or are typical of the product. Typical properties should not be confused with, or regarded as, specifications.