



CARBOWAX™ and CARBOWAX SENTRY™ Polyethylene Glycol 8000

Product Description	CAS # 25322-68-3	
	CHEMICAL FAMILY—Oxyalkylene Polymer	
	CTFA NOMENCLATURE — PEG-150	
Typical Physical Properties	Average Molecular Weight Range	7000 to 9000
	Average Hydroxyl Number Range	16 to 13
	Average Number of Repeating Oxyethylene Units	181.4
	Density (g/cm ³ @ 60°C)	1.0845
	Melting or Freezing Range	60 to 63°C (140 to 144°F)
	Solubility in Water (Wt% @ 20°C)	63
	Viscosity (cSt @ 99°C)	822
	Avg. Liquid Specific Heat (cal/g/°C)	0.55
	Heat of Fusion (cal/g)	46
	pH at 25°C (5% Aqueous Solution)	4.5 to 7.5
Shipping Information	Physical Form	Granular or Powder
	Bulk Density Granular	30 lbs/ft ³
	Bulk Density Powder	40 lbs/ft ³
	Flash Point	
	Pensky-Martens closed cup (ASTM D93)	>180°C (350°F)
	Cleveland open cup (ASTM D92)	>270°C (520°F)
Typical Known Applications for Polyethylene Glycol	<ul style="list-style-type: none"> • Adhesives • Agriculture • Ceramics • Chemical Intermediates • Cosmetics • Toiletries • Electroplating / Electropolishing • Food Processing • Household Products 	<ul style="list-style-type: none"> • Lubricants • Metal / Metal Fabrication • Paints & Coatings • Paper Industry • Pharmaceuticals • Printing • Rubber & Elastomers • Textiles • Wood Processing

FDA Status

CARBOWAX SENTRY™ Polyethylene Glycols are produced to meet the requirements of the National Formulary (NF) monograph for drug applications and the Food Chemicals Codex (FCC) monograph for certain food and feed applications.

Handling and Storage

CARBOWAX™ Polyethylene Glycol 8000 is sold as a solid in bags or in fiber drums. The containers should be kept sealed and should not be stored next to steam lines or other heat sources that could cause the product to soften or melt. Recommended storage temperature is below 40°C (105°F).

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to use.

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