

## CARBOWAX™ SENTRY™ Polyethylene Glycol (PEG) 400

<b>Product</b>	CAS # 25322-68-3
<b>Description</b>	CHEMICAL FAMILY – Oxyalkylene Polymer CFTA NOMENCLATURE – PEG-8

### Typical Physical Properties – CARBOWAX™ SENTRY™ Polyethylene Glycol 400 NF, FCC; Macrogol 400 Ph. Eur. □<sup>1</sup> □

Range of Avg. Molecular Weight	380 - 420
Range of Average Hydroxyl Number, mg KOH/g	264 - 300
Density, g/cm <sup>3</sup> @ 20°C	1.1255
Melting or Freezing Range, °C	4 to 8
Solubility in Water at 20°C, % by wt	Complete
Viscosity at 100°C, cSt	7.3
Average Number of Repeating Oxyethylene Units	8.7
Avg. Liquid Specific Heat, cal/g/°C	0.51
Heat of Fusion, Cal/g	36
pH at 25°C, 5% Aqueous Solution	4.5-7.5
Flash Point, Pensky Martens Closed Cup, °C	227
Flash Point, Cleveland Open Cup, °C	263
Physical Form	Liquid
Weight per gallon, lbs/gal @ 20°C	9.39

1. Typical properties, not to be construed as specifications

#### Typical Known Applications for Polyethylene Glycols\*

- Cosmetics & Personal Care
- Chemical Intermediates
- Food Processing & Packaging
- Pharmaceuticals

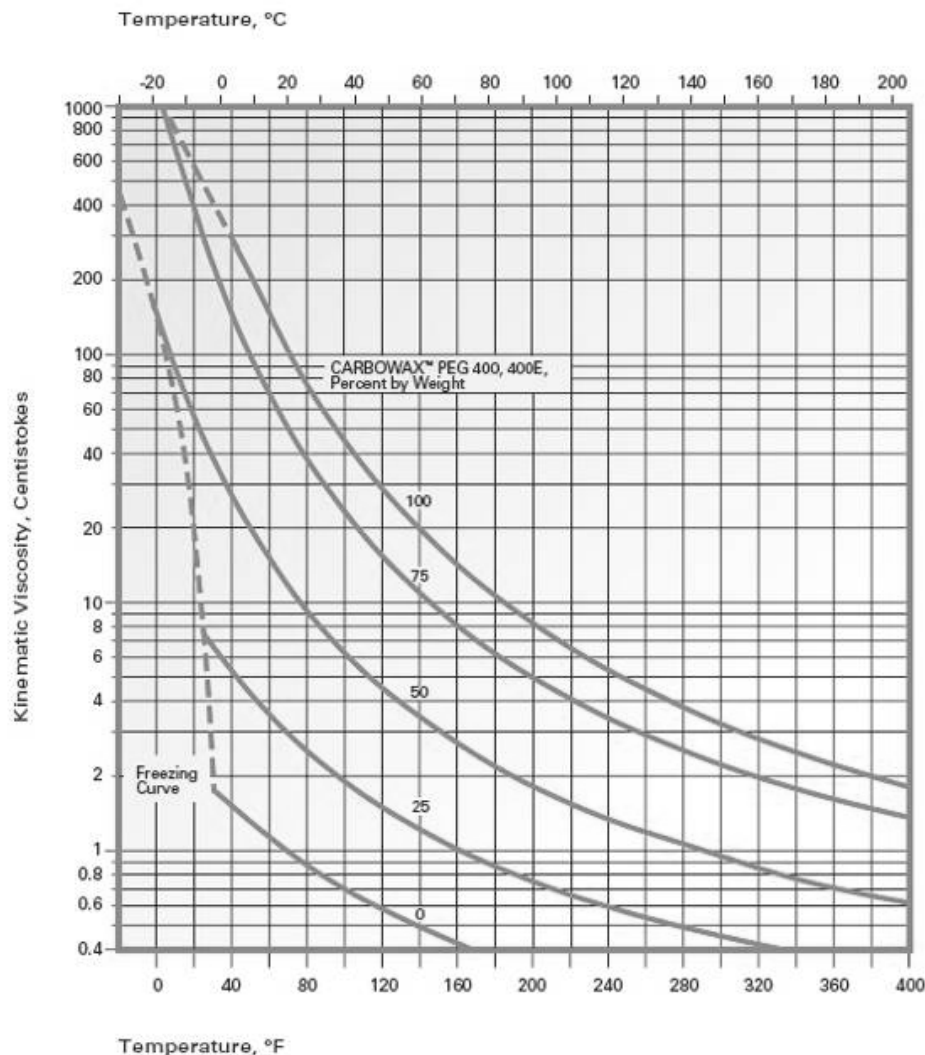
\*Refer to the CARBOWAX™ SENTRY™ Polyethylene Glycols and Methoxypolyethylene Glycols brochure (Form No. 118-01790-1011) for more specific application information

**FDA Status** CARBOWAX™ SENTRY™ Polyethylene Glycols are produced to meet the requirements of the National Formulary (NF) monograph and the Food Chemicals Codex (FCC) monograph.

**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 the use.



**Kinematic Viscosity of Aqueous Solutions of CARBOWAX™ SENTRY™ Polyethylene Glycol 400**



***For further information, call...***

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