



## CARBOWAX™ Polyethylene Glycol 200

### Product Description

CAS # 25322-68-3  
 CHEMICAL FAMILY—Oxyalkylene Polymer  
 CTFA NOMENCLATURE — PEG-4

### Typical Physical Properties

Average Molecular Weight Range	190 to 210
Average Hydroxyl Number Range	590 to 534
Avg. Number of Repeating Oxyethylene Units	4.2
Density (g/cm <sup>3</sup> @ 20°C)	1.1239
Melting or Freezing Range	sets to glass -65°C (-85°F)
Solubility in Water (Wt% @ 20°C)	Complete
Viscosity (cST @ 99°C)	4.3
Avg. Liquid Specific Heat (cal/g/°C)	0.52
Heat of Fusion (cal/g)	sets to glass below -65°C (-85°F)
pH at 25°C (5% Aqueous Solution)	4.5 to 7.5

### Shipping Information

Physical Form	Liquid
Weight per Gallon (lbs @ 20°C)	9.38
Flash Point	
Pensky-Martens closed cup (ASTM D93)	>135°C (300°F)
Cleveland open cup (ASTM D92)	>170°C (340°F)

### Typical Known Applications for Polyethylene Glycol

- Adhesives
- Agriculture
- Ceramics
- Chemical Intermediates
- Cosmetics
- Toiletries
- Electroplating / Electropolishing
- Food Processing
- Household Products
- Lubricants
- Metal / Metal Fabrication
- Paints & Coatings
- Paper Industry
- Pharmaceuticals
- Printing
- Rubber & Elastomers
- Textiles
- Wood Processing

## FDA Status

CARBOWAX™ Polyethylene Glycol 200 is not produced to meet NF or FCC Specifications but may be used as a component of articles intended for use in contact with food. The only limitation on its use is that the quantity does not exceed the amount required to accomplish the intended physical or technical effect in the food-contact article.

## Handling and Storage

CARBOWAX™ Polyethylene Glycol 200 is sold as a liquid in cans, pails, or drums, and can be stored inside a warm building without provision for heating. If storage time is prolonged, or if tank is heated or in a hot climate, it is preferable to store this product under a nitrogen atmosphere. If heated storage is required, metal temperature should not exceed 50°C (125°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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