

Product Specifications

PARAMETER	LIMIT
Diethylene Glycol (WT%)	99.0 min
Monoethylene Glycol (WT%)	0.5% max
Triethylene Glycol (WT%)	0.7% max
Appearance	clear, bright, free of entrained matter
Color (APHA)	15 max
Water (WT%)	0.200 max
Acidity as acetic acid (WT%)	0.005 max

Features

The solvent properties of diethylene glycol (DEG) make it useful in many applications including cleaners, heat transfer fluids, cement processing, and adhesives. Other major applications of DEG include use as a chemical intermediate in the manufacture of unsaturated polyester resins and polyurethanes.

DEG, is similar in properties to ethylene glycol, but with a higher boiling point, viscosity and specific gravity.

Applications

- Unsaturated polyester resins
- Polyester polyols
- Dyestuffs
- Plasticizers
- Buffet heater fuel
- Cement grinding aid
- Morpholine feedstock

Typical Properties

PROPERTY	VALUE
Specific gravity (20/20°C)	1.118
Solubility in water	completely miscible
Flashpoint	280°F (138°C)
Freeze point	20.3°F (-6.5°C)
pH	7
Iron (ppm)	≤ 1.0
Ash (WT%)	≤ 0.005
Distillation range	
initial	467.6°F (242°C)
dry point	482°F (250°C)
Molecular formula	(HOCH ₂ CH ₂) ₂ O
Molecular weight	106.12

These values should not be construed as sales specifications.

Other Information

- CASRN: 111-46-6
- This product may not be used in aerosol applications such as theater fogs, linen sprays, pepper sprays, air sanitizers; chafing fuels for warming foods, deicer applications for use on roadways and pedestrian walkways, manufacture/formulation of deicer or anti-icing products for use on aircraft or runways.
- NFPA hazards: Health 1, Flammability 1, Instability 0

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Berryman Chemical Inc. does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.