DANTOCOL™ DHE

Di-(2-Hydroxyethyl)-5, 5-Dimethylhydantoin
CAS No. 26850-24-8
CTFA Name: DEDM Hydantoin

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\begin{align*}
\text{CH}_3 & \quad \text{H}_3 \text{C} \\
& \quad \text{O} \\
\text{HOCH}_2\text{CH}_2 & \quad \text{N} \\
& \quad \text{N} \\
& \quad \text{CH}_2\text{CH}_2\text{OH}
\end{align*}
\]

Specifications

Hydroxyl Value........................................485.0 – 515.0
Moisture, %.............................................0.30 Max.
Color (APHA)..........................................150 Max.
pH (5%aq)..............................................5.5 - 7.5
Ash, sulfated.........................................0.20 max
Ethylene Glycol......................................0.00 – 0.50
Refractive Index.................................1.4986 – 1.5006

Specifications are based upon Lonza analytical methods, copies of which are available upon request.

Typical Properties

Appearance @ 25°C..............................light yellow liquid to waxy solid
Melting Point, °C.................................62 – 65
Specific Gravity (Water = 1)..............1.22 @ 25°C
Soluble in Water

Manufacturing Location

Williamsport, PA USA

Packaging

Steel, open-head, lined drums, 550 pound weight.

The seller makes no warranty, expressed or implied, concerning the accuracy of any results to be obtained from the use of this information and no warranty is expressed or implied concerning the use of these products other than indicated within. The buyer assumes all risks of use and/or handling. No statement is intended or should be construed as a recommendation to infringe any patent.
Regulatory Information

INCI / CTFA Designation ...................... DEDM Hydantoin
CAS No. ........................................... 26850-24-8

TSCA: The components of Dantocol DHE are currently listed in the U.S. EPA TSCA 8(b) inventory list.

Europe: According to present data no precautionary classification and labelling is required according to Directives 67/548/EEC or 88/379/EEC. Handle in accordance with good industrial hygiene and safety practice.

Suggested Applications

Dantocol DHE is a hydantoin glycol suggested for use in:

- **Chemical Intermediate Reactions**: for esterification and ethoxylation products in emulsifier and surfactant applications, textile finishes, cosmetics, etc.
- **Plastics**: as a cross-linking agent in acrylic, epoxy and polyurethane resins
- **Inks**: as a humectant and for solubilization
- **Coatings**: for high temperature resistant polyester or modified imide-amide wire enamels and specialty coatings including acrylics and polyurethanes
- **Adhesives**: as a cross-linking agent in hot melt formations
- **Cosmetics Formulations**: as a film-former and lubricant in permanent waves, shaving preparations and specialty bar soap formulations

For questions or for further information, e-mail Technical Sales Support at contact.allendale@lonza.com or call 1-800-365-TECH (8324)