



Zemea® USP-FCC Propanediol

INCI Name: Propanediol

CAS Number: 504-63-2

EINECS Number: 207-997-3

FEMA Number: 4753

Summary

Zemea® USP-FCC propanediol is a pure, naturally derived ingredient for food and beverage products, as well as a carrier for flavors and extracts. It offers formulators the potential for reduced bitterness and overall improved sweetness perception in their final products. Additional functions include taste modifier, humectant, extraction solvent, and diluent.

Benefits:

- Reduced bitterness
- Enhanced sweetness
- Enhanced flavor sensory
- Improved humectancy
- Lowers water activity
- Antimicrobial properties
- Unique solubility properties
- Alternative to petroleum-based ingredients

Approvals:

- Food Chemicals Codex (FCC)
- United States Pharmacopeia (USP)
- Generally Recognized As Safe (GRAS)
- Kosher
- Halal
- 100% bio-based USDA

Typical Properties

Appearance	Clear
Odor	Low, Sweet
Solubility in water	Soluble
Viscosity, cP (20°C)	52
Density, g/ml (20°C)	1.053
pH	Neutral
Purity	99.9%

Packaging

- 18.1 kg (40 lb) Pails
- 199.8 kg (440 lb) Drums
- 997.9 kg (2,200 lb) Totes

Storage Conditions and Expiration Date

Sealed containers should be stored within a temperature range of 0°– 50°C (32°–122°F). Containers can be resealed and stored within the same temperature range. Avoid prolonged exposure to oxygen and water. The use of nitrogen during storage is encouraged. If the seal is unbroken and the material has been stored according to the manufacturer's recommendations, a 2 year shelf life can be expected.

Purity Guarantee

Zemea® USP-FCC propanediol is made from fermentation of glucose and contains no added preservatives, petroleum-based ingredients, or animal by-products.

For additional information or samples:

DuPont Tate & Lyle Bio Products Customer Service

198 Blair Bend Drive
Loudon, TN 37774

Tel: +1-866-404-7933

www.duponttateandlyle.com



Copyright © 2016 DuPont Tate & Lyle Bio Products Company, LLC. Zemea® is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC, for its brand of bio-based propanediol. All rights reserved.

This technical product information is presented in good faith and is believed to be accurate and reliable as of the date of publication. DuPont Tate & Lyle Bio Products makes no guarantee or warranty of any kind, expressed or implied, regarding the product or information contained herein. Purchaser assumes all risk and liability in acting on the information provided herein. It is the sole responsibility of the Purchaser to determine whether Zemea® propanediol is appropriate and suitable for the Purchaser's specific use and, as required, to obtain approval by appropriate regulatory authorities for such use. Statements concerning the use of Zemea® propanediol are not to be construed as recommendations, suggestions, or inducements to use it in the infringement of any patent or in violation of any applicable laws or regulations. DuPont Tate & Lyle Bio Products disclaims any liability for infringement of any patent by reason of customer's use of any products or information contained herein in combination with other materials or in any process. (11/2016)