

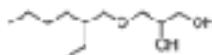


Technical Data Sheet for Ethylhexylglycerin

Section 1: Manufacturer information

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Section 2: Identification of product

Name: Ethylhexylglycerin
Synonym: Octoxyglycerin
Chemical name: 2-Propanediol,3-[(2-ethylhexyl)oxy]-1; 3-(2-ethylhexyloxy)propane-1,2-diol
CAS#: 70445-33-9
EINECS number: 408-080-2
UNII: 147D247K3P
Molecule structure:

Chemical formula: C₁₁H₂₄O₃
Molecular weight: 204.31 g/mole.

Section 3: Physical and chemical properties

Appearance: Colourless liquid.
Odor: Nearly odourless.
Melting point/Melting range: <-76°C
Boiling point/Boiling range: 145°C, 9hPa
Flash point: 152°C, ASTM D 93
Decomposition temperature: Not available.
pH: 6.0~8.0, Concentration: 1.80g/L, 20°C
Vapour pressure: 0.003hPa, 20°C
Ignition temperature: 250°C, DIN 51794
Density: 0.95~0.96g/ml, 20°C
Viscosity, dynamic: 144mPa*s, 20°C, Brookfield
Partition coefficient (n-octanol/water): log Pow: 2.53, 20°C, OECD Test Guideline 107
Danger of explosion: Product does not present an explosion hazard.
Water solubility: 1.8g/L, 22°C

Section 4: Manufacturing details

Manufacturing method: Chemical synthesis
Raw materials: 2-Ethylhexyl glycidyl ether, acetone
Production process:
 First step: 2-Ethylhexyl glycidyl ether and acetone was added in the reaction kettle with the mechanical stirring and thermometer, and keep the temperature for 1 hours, then vacuum the remaining acetone.
 Second step: A proper amount of hydrochloric acid is added to the reactant, then neutralized with caustic soda, and separated.
 Third step: Oil phase was fractionated to collect 180 °C of the fractions.
 Fourth step: Packed after inspection by liquid chromatography.
Solvent residue: Nearly odourless.

Section 5: Usage

Property: This product is used as a preservative in cosmetics and food.
Reference addition: Follow the local law.
Attention:
 This product shall be used in accordance with the local law.
 It may be harmful to the skin when this product is compatible with other additives that have physiological effects, so the use of cosmetic formulations of this product should be fully studied.

**Section 6: Packaging**

25Litres/bag, PE bag.
1000Litres/drum, PE bag.

Section 7: Storage

Keep container tightly closed.
Avoid product residues from /on the storage containers.
Handle and open container with care.

Section 8: Other information

Creat date: 11/20/2016.

Please ask [Hubei Artec Biotechnology Co.,Ltd.](http://www.artec.cc) if you want the specification of this product, and the number is Q/HBATK11-2016.

The above information involve our technology secrets about the production of this product, therefor users shall keep it a secret.

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