

Ethylhexylglycerin

Cat. No. EHGX-0001

Lot. No. (See product label)

Introduction

Description

Ethylhexylglycerin is a cosmetic-grade branched alkyl glyceryl ether in which a 2-ethylhexyl group is connected to glycerin through an ether linkage. It functions as a deodorant and skin-conditioning ingredient and has been reported to enhance the efficacy of certain cosmetic preservative systems.

Applications

Skin-care and body-care products Hair-care products Deodorants Eye-area cosmetics Cleansing and bath products Leave-on and rinse-off cosmetic formulations

Synonyms

3-(2-Ethylhexyloxy)propane-1,2-diol; 3-[(2-Ethylhexyl)oxy]-1,2-propanediol

Product Information

CAS No.

70445-33-9

Molecular Formula

C₁₁H₂₄O₃

Chemical Name

3-(2-Ethylhexoxy)propane-1,2-diol

Molecular Weight

204.31 g/mol

Structure

Branched alkyl glyceryl ether containing a hydrophilic glycerin group and a hydrophobic 2-ethylhexyl chain joined by an ether bond.

Function

Deodorant agent Skin-conditioning agent Preservative efficacy enhancer

Boiling Point

145 °C at 9 hPa

Solubility

Limited solubility in water (approximately 0.1%); highly soluble in organic solvents including alcohols, glycols, and glycol ethers.

Toxicity

The Cosmetic Ingredient Review Expert Panel concluded that Ethylhexylglycerin is safe in the present practices of use and concentration described in its assessment.

Density

Approximately 0.95 g/cm³

Grade

Cosmetic grade

Usage

Reported 2010–2011 cosmetic use concentrations: Leave-on products: 0.002–2% Rinse-off products: 0.000001–8% Underarm deodorants: 0.04–2% Eye-area products: 0.02–1%