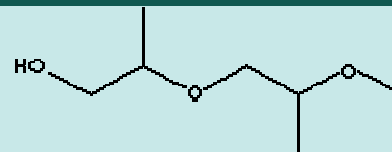


# DIPROPYLENE GLYCOL MONOMETHYL ETHER

## PRODUCT IDENTIFICATION

CAS NO.	34590-94-8
EINECS NO.	
FORMULA	$\text{CH}_3(\text{OC}_3\text{H}_6)_2\text{OH}$
MOL WT.	148.2
H.S. CODE	



## TOXICITY

**SYNONYMS** Methoxy Propoxy Propanol; DPG; Dipropylene Glycol Methyl Ether; Methoxypropoxypropanol; Mixture of Methyl dipropylene glycol; Oxybispropanol, Methyl Ether; Bis-(2-Methoxypropyl) ether;

## RAW MATERIALS CLASSIFICATION

## PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	colorless liquid with mild pleasant odor
MELTING POINT	-80 C
BOILING POINT	180 C
SPECIFIC GRAVITY	0.95
SOLUBILITY IN WATER	completely (and miscible with a number of organic solvents)
pH	
VAPOR DENSITY	
AUTOIGNITION	532 C
NFPA RATINGS	Health: 1 Flammability: 2 Reactivity: 0
REFRACTIVE INDEX	1.422
FLASH POINT	75 C
STABILITY	

## APPLICATIONS

Solvent for coating systems; Additive in paint removers; Component in hydraulic fluids. Starting material for the production of esters used as plasticizers. It reacts with acids to form esters, oxidizing agents to form aldehydes or carboxylic acids, alkali metals to form alcoholates or aldehydes to form acetals. These properties support the use in agricultural, cosmetic, electronic, ink, textile and adhesive products.

## SALES SPECIFICATION

APPEARANCE	colorless liquid with mild pleasant odor
PURITY	99.0% min (mixture of isomers)
ACIDITY	0.01% max
WATER	0.1% max
COLOR (APHA)	15 max

## TRANSPORTATION

PACKING	
HAZARD CLASS	
UN NO.	

## DESCRIPTION OF DIPROPYLENE GLYCOL

Dipropylene Glycol is a colourless, viscous, practically non-toxic and slightly hygroscopic liquid; melting point -78 C, boiling point 231 C, specific gravity 1.023. It is a isomer mixture of 1,1'-Oxybis(2-propanol) (cas no.108-61-2), 2-(2-Hydroxypropoxy)-1-propanol (106-62-7) and 2,2'-Oxybis(1-

propanol) (110-98-5). Dipropylene glycol is miscible in water, alcohols, esters and almost organic solvents and various vegetable oils. It is produced during the manufacture of propylene glycol from propylene oxide along with tripropylene glycol and higher glycols. Dipropylene Glycol is used as a solvent, coupling agent and chemical intermediate. Dipropylene glycol is used as a component in the production of unsaturated polyester resins, alkyd resins, polyurethane polyols, textile auxiliaries and Dibenzate plasticisers. It is an ingredient of cutting oils, functional fluids, industrial soaps, agricultural insecticidal formulations, defoamers, cosmetics and fragrances. It is used as an additive for carburettor fuels as a lubricant and anti-freezing agent. Dipropylene glycol is used as a solvent for printing inks, cellulose acetate, nitrocellulose, lacquers and coatings. In the refinery industry, it is used as an extraction solvent to extract aromatics.