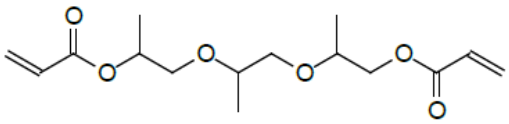
Monomer TPGDA

Product Description

Tripropylene glycol diacrylate (TPGDA) is a general purpose difunctional reactive diluent with a branched alkyl polyether backbone. Polymerization occurs when TPGDA is exposed to sources of free radicals. It is widely used as a primary diluent in the formulation of ultraviolet light (UV) and electron beam (EB) energy curable coatings and inks.

Chemical Data

Chemicals Name	2-Propenoic acid, methyl-1,2-ethanediyl)bis[oxy(methyl-2, 1-ethanediyl)]ester
CAS:	42978-66-5
Molecular Formula	



Typical properties

Appearance	Clear liquid
Color (APHA) max.	≤ 50
Viscosity, 25°C, cps	10-15
Density, g/ml at 25°C	1.03
Water, wt. %, max.	≤ 0.1
Acid value, mg KOH/g, max.	≤ 0.5

Advantages

- Low viscosity
- Good diluency of acrylate oligomers
- Hydrophobicity
- Good flexibility
- Improved water resistance
- Good cure speed without brittleness

Applications

UV or EB cured inks, coatings, varnishes, and adhesives. Specialized for application which needs water resistance and low viscosity and dilution of viscous oligomers or polymers

Packing & Storage

- 200kg Metal Drums
- This monomer should be stored indoors in the original, unopened and undamaged containers in a dry place at storage temperatures below 38°C. Exposure to direct sunlight should be avoided
- Recommended shelf life is 1 year