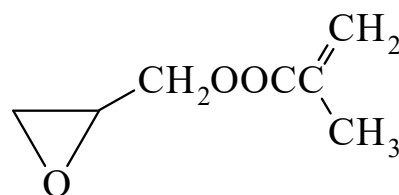




>>Entry Name: **2,3-Epoxypropyl methacrylate**, 8Cl

Synonym(s): Oxiranylmethyl 2-methyl-2-propenoate, 9Cl. Glycidyl methacrylate



CAS Registry Number: 106-91-2

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

Percentage Composition: C 59.14%; H 7.09%; O 33.76%

Use/Importance: Crosslinking comonomer

Aldrich: 15123-8

Fluka: 64161

Sigma: M1157

>>Variant: (±)-form

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

Percentage Composition: C 59.14%; H 7.09%; O 33.76%

Source/Synthesis: Manuf. from (Chloromethyl)oxirane [HHW30-I](#) and 2-Methyl-2-propenoic acid [DCK35-E](#)

Boiling Point: Bp 189°

Density: d₂₅²⁵ 1.073

Refractive Index: n_D²⁵ 1.4482

Other Data: Coml. products contain hydroquinone monomethyl ether or a similar polym. inhibitor. Q/e values for copolym., Q 0.96, e 0.20

References:

Greenley, R.Z., *J. Macromol. Sci., Chem., Part A*, 1980, **14**, 427, (*Q/e values*)

Brosse, J.C. *et al.*, *Makromol. Chem.*, 1983, **184**, 681, (*polym, kinetics*)

Encyclopaedia of Polymer Science and Engineering, 2nd edn., Wiley-Interscience, New York, 1985, **1**, 240, (*rev, polym*)

Otera, J. *et al.*, *Synthesis*, 1986, 1019, (*synth, pmr*)