



>>Entry Name: **2-Ethyl-2-hydroxymethyl-1,3-propanediol**, 9CI, 8CI
Synonym(s): 2,2-Bis(hydroxymethyl)-1-butanol. Trimethylolpropane. Ettriol

CAS Registry Number: 77-99-6
H3CCH2C(CH2OH)3

Molecular Formula: C6H14O3
Molecular Weight: 134.175
Accurate Mass: 134.094295
Percentage Composition: C 53.71%; H 10.52%; O 35.77%
Source/Synthesis: Manuf. from benzaldehyde and formaldehyde
Use/Importance: Used in the manuf. of cross-linked polyesters and polyurethanes and in heat-activated oven cleaners
Physical Description: Cryst. (pentanol)
Melting Point: Mp 59-60°
Boiling Point: Bp 289°. Bp₂ 194° (159-161°)
Solubility: Sol. H₂O, CHCl₃
Hazard & Toxicity: LD₅₀ (rat, orl) approx. 14000 mg/kg

Aldrich: 14808-3
Fluka: 93370

>>Derivative: Tri-2-propenoyl

CAS Registry Number: 15625-89-5
Molecular Formula: C15H20O6
Molecular Weight: 296.319
Accurate Mass: 296.12599
Percentage Composition: C 60.80%; H 6.80%; O 32.40%
Use/Importance: Cross-linking monomer used in photopolym. compositions
Aldrich: 24680-8

>>Derivative: Tris(2-methyl-2-propenoyl)

CAS Registry Number: 3290-92-4
Molecular Formula: C18H26O6
Molecular Weight: 338.4
Accurate Mass: 338.17294
Percentage Composition: C 63.89%; H 7.74%; O 28.37%
Use/Importance: Cross-linking monomer used in photopolym. compositions
Physical Description: Liq.
Melting Point: Mp -14°
Boiling Point: Bp₁ 155°
Density: d²⁰ 1.06
Refractive Index: n_D²⁰ 1.4270
Aldrich: 24684-0
Rare Chemicals Library: S35668-9

>>Derivative: Triheptanoyl

Synonym(s): Trimethylolpropane triheptanoate. Basestock 704

CAS Registry Number: 78-16-0
Molecular Formula: C27H50O6
Molecular Weight: 470.688
Accurate Mass: 470.36074
Percentage Composition: C 68.90%; H 10.71%; O 20.39%
Use/Importance: Used in synthetic lubricants
Boiling Point: Bp₂ 240-245°
Density: d 0.962
Refractive Index: n_D 1.4510