



>>Entry Name: 2-Benzoyloxy-1,3-propanediol

Synonym(s): 2-(Phenylmethoxy)-1,3-propanediol, 9Cl. 2-*O*-Benzylglycerol

CAS Registry Number: 14690-00-7

Related CAS Registry Numbers(s): 62067-18-9 92917-13-0 96997-53-4 109371-34-8 109429-00-7 109429-01-8

PhCH2OCH(CH2OH)2

Molecular Formula: $C_{10}H_{14}O_3$

Molecular Weight: 182.219

Accurate Mass: 182.094295

Percentage Composition: C 65.92%; H 7.74%; O 26.34%

Use/Importance: Synthetic intermed.

Physical Description: Prisms (cyclohexane)

Melting Point: Mp 40-45° (36-38°)

Boiling Point: Bp₁₀ 185-187°

Aldrich: 36744-3

Fluka: 13734

>>Derivative: Di-Ac

CAS Registry Number: 105409-38-9

Molecular Formula: $C_{14}H_{18}O_5$

Molecular Weight: 266.293

Accurate Mass: 266.115425

Percentage Composition: C 63.15%; H 6.81%; O 30.04%

Physical Description: Liq.

Boiling Point: Bp_{0.2} 142°

Refractive Index: n_D²⁵ 1.4884

>>Derivative: Dibenzoyl

CAS Registry Number: 92917-15-2

Molecular Formula: $C_{24}H_{22}O_5$

Molecular Weight: 390.435

Accurate Mass: 390.146725

Percentage Composition: C 73.83%; H 5.68%; O 20.49%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 72-75°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 398A, (*nmr*)

White, H.L. *et al.*, *J.A.C.S.*, 1952, **74**, 3451, (*synth*)

West, W.A. *et al.*, *J.A.C.S.*, 1952, **74**, 4466, (*synth*)

Schmidt, O.T. *et al.*, *Chem. Ber.*, 1956, **89**, 283, (*synth*)

Baran, J.S. *et al.*, *J.O.C.*, 1977, **42**, 2260, (*monoacetate*)

Chittenden, G.J.F., *Carbohydr. Res.*, 1981, **91**, 85, (*synth*)

Surles, J.R. *et al.*, *J. Med. Chem.*, 1985, **28**, 73, (*synth*)

Suemune, H. *et al.*, *Chem. Pharm. Bull.*, 1986, **34**, 3440, (*synth, derivs*)