



>>Entry Name: 2-Phenyl-1,3-propanediol, 9CI

CAS Registry Number: 1570-95-2

PhCH(CH₂OH)₂

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Physical Description: Viscous oil

Melting Point: Mp 48.5-49°

Boiling Point: Bp₁₆ 189°. Bp₂ 136-137°

>>Derivative: Di-Ac

Molecular Formula: C₁₃H₁₆O₄

Molecular Weight: 236.267

Accurate Mass: 236.10486

Percentage Composition: C 66.09%; H 6.83%; O 27.09%

Boiling Point: Bp₁₃ 162-164°

>>Derivative: Dicarbamate

Synonym(s): Felbamate, INN. Felbatol. W 554

CAS Registry Number: 25451-15-4

Molecular Formula: C₁₁H₁₄N₂O₄

Molecular Weight: 238.243

Accurate Mass: 238.095358

Percentage Composition: C 55.46%; H 5.92%; N 11.76%; O 26.86%

Use/Importance: Anticonvulsant

Development Status: Launched 1993 (US)

Melting Point: Mp 151-152°

Calculated Log P Data: Log P -0.29 (calc)

References:

- Adkins, H. *et al.*, *J.A.C.S.*, 1948, **70**, 3121, (*synth*)
Searles, S. *et al.*, *J.O.C.*, 1959, **24**, 1839, (*synth*)
Ludwig, B.J. *et al.*, *J. Med. Chem.*, 1969, **12**, 462, (*Felbamate*)
Marshall, P.A. *et al.*, *Aust. J. Chem.*, 1977, **30**, 141, (*synth*)
Swinyard, E.A. *et al.*, *Epilepsia (N.Y.)*, 1986, **27**, 27, (*Felbamate*)
Palmer, K.J. *et al.*, *Drugs*, 1993, **45**, 1041, (*Felbamate, rev*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 300
Antiepileptic Drugs, (Eds., Levy, R.H. *et al.*), 4th edn., Raven Press, 1995
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