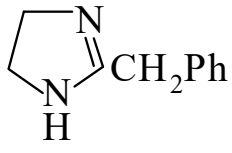
>>**Entry Name: 2-Benzyl-4,5-dihydro-1*H*-imidazole**
Synonym(s): 2-Benzyl-2-imidazoline. 4,5-Dihydro-2-(phenylmethyl)-1*H*-imidazole, 9CI. 2-Benzyldihydroglyoxaline. **Tolazoline,** BAN, INN**.** Benzazoline. Benzidazol. **Benzolin ‡.** Imidaline. Priscoline



CAS Registry Number: 59-98-3

Molecular Formula: $C_{10}H_{12}N_2$
Molecular Weight: 160.218
Accurate Mass: 160.100048
Percentage Composition: C 74.97%; H 7.55%; N 17.48%
Use/Importance: Antiadrenergic, peripheral vasodilator
Physical Description: Cryst. (petrol)
Melting Point: Mp 66-68°
pKa Value: pK_a 10.37 (20°)
Calculated Log P Data: Log P 2.65 (calc)
Hazard & Toxicity: LD_{50} (mus, orl) 350 mg/kg

Aldrich: 29349-0

>>**Derivative:** Hydrochloride
Synonym(s): Tolazoline hydrochloride, USAN**.** Priscol

CAS Registry Number: 59-97-2
Melting Point: Mp 171-172°
Hazard & Toxicity: Gastrointestinal disturbances and other adverse effects reported when used therapeutically. LD_{50} (mus, orl) 400 mg/kg

Aldrich: T3546-7
Sigma: T5036

>>**Derivative:** Picrate

Physical Description: Yellow solid
Melting Point: Mp 147°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 642B; 642C, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1305B, *(ir)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1177B, *(ir)*
Scholz, C.R.*, Ind. Eng. Chem.*, 1945, **37**, 120, *(rev)*
Ohashi, M. *et al.*, *Org. Mass Spectrom.*, 1968, **1**, 703, *(ms)*
Fomam, Z.T.*, Chem. Comm.*, 1974, 706, *(synth)*
George, B. *et al.*, *J.O.C.*, 1977, **42**, 441, *(synth)*
Singh, S.P. *et al.*, *J. Pharm. Sci.*, 1979, **68**, 890, *(cmr)*
Owen, J.T.R. *et al.*, *J. Assoc. Off. Anal. Chem.*, 1981, **64**, 1164, *(cryst struct)*
Neef, G. *et al.*, *J.O.C.*, 1981, **46**, 2824, *(synth)*
Ward, R.M. *et al.*, *Clin. Perinatol.*, 1984, **11**, 703, *(rev, pharmacol)*
Negwer, M.*, Organic-Chemical Drugs and their Synonyms, 6th edn., Akademie-Verlag*, 1987, 1533, *(synonyms)*
Ghose, S. *et al.*, *J.C.S. Perkin 2*, 1989, 599, *(cryst struct)*
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 390
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, BBJ750; BBW750