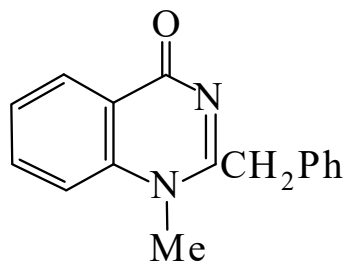




>>Entry Name: 2-Benzyl-1-methyl-4(1*H*)-quinazolinone

Synonym(s): 1-Methyl-2-(phenylmethyl)-4(1*H*)-quinazolinone, 9Cl. **Arborine**. Glycosine



CAS Registry Number: 6873-15-0

Molecular Formula: C₁₆H₁₄N₂O

Molecular Weight: 250.299

Accurate Mass: 250.110613

Percentage Composition: C 76.78%; H 5.64%; N 11.19%; O 6.39%

Biological Source: Major alkaloid from leaves of *Glycosmis arborea*. Also present in *Ruta graveolens* and in the fruits of *Zanthoxylum budrunga* (Rutaceae)

Use/Importance: Acetylcholine inhibitor, central hypotensive agent. *G. arborea* is a folk medicine against fever, anaemia and jaundice

Physical Description: Cryst. (MeOH/CHCl₃)

Melting Point: Mp 161-162° (155-156°)

>>Derivative: Hydrochloride

Physical Description: Cryst. + 2H₂O (H₂O)

Melting Point: Mp 215 dec.° (partial melting at 106-108°)

>>Derivative: Hydrobromide

Melting Point: Mp 75-76°

>>Derivative: Hydroiodide

Melting Point: Mp 95-96°

>>Derivative: Nitrate

Melting Point: Mp 116-117°

>>Derivative: Picrate

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 172-173°

>>Derivative: Styphnate

Melting Point: Mp 194-195°

>>Derivative: Picrolonate

Melting Point: Mp 171°

>>Derivative: Methiodide

Melting Point: Mp 126-127°

References:

- Chakravarti, D. *et al.*, *Tetrahedron*, 1961, **16**, 224, (*uv, ir, pmr, struct*)
Pakrashi, S.C. *et al.*, *Tetrahedron*, 1963, **19**, 1011, (*ir, ms*)
O'Donovan, D.G. *et al.*, *J.C.S.(C)*, 1970, 2466, (*biosynth*)
Kametani, T. *et al.*, *Heterocycles*, 1976, **4**, 1487; 1978, **9**, 1585, (*synth, pmr, ms*)
Kametani, T. *et al.*, *J.A.C.S.*, 1977, **99**, 2306, (*synth, ir, pmr, ms*)
Naik, N.R. *et al.*, *J. Indian Chem. Soc.*, 1979, **56**, 708, (*synth, uv, ir*)
Bhattacharyya, J. *et al.*, *Heterocycles*, 1980, **14**, 1469, (*cmr*)
Chakraborty, D.P. *et al.*, *Synthesis*, 1981, 977, (*synth*)
Johne, S., *Alkaloids (N.Y.)*, 1986, **29**, 129, (*rev, pharmacol*)
Muthukrishnan, J. *et al.*, *Phytochemistry*, 1999, **50**, 249-254, (*isol, pmr, cmr*)