



>>Entry Name: Lachesine(1+)

Synonym(s): *N*-Ethyl-2-[(hydroxydiphenylacetyl)oxy]-*N,N*-dimethylethanaminium. (2-Benziloyloxyethyl)ethyldimethylammonium. Laxesin. E 3



Molecular Formula: $\text{C}_{20}\text{H}_{26}\text{NO}_3^{(+)}$

Molecular Weight: 328.43

Accurate Mass: 328.191269

Percentage Composition: C 73.14%; H 7.98%; N 4.26%; O 14.61%

>>Derivative: Chloride

Synonym(s): Lachesine chloride, BAN

CAS Registry Number: 1164-38-1

Molecular Formula: $\text{C}_{20}\text{H}_{26}\text{ClNO}_3$

Molecular Weight: 363.883

Accurate Mass: 363.160121

Percentage Composition: C 66.02%; H 7.20%; Cl 9.74%; N 3.85%; O 13.19%

Use/Importance: Antimuscarinic agent; shows mydriatic and cycloplegic activity

Physical Description: Cryst. ($\text{Me}_2\text{CO}/\text{EtOH}$)

Development Status: Development discontinued

Melting Point: Mp 213°

Hazard & Toxicity: LD₅₀ (mus, orl) 1000 mg/kg. LD₅₀ (mus, scu) 160 mg/kg

References:

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Feldman, J.B., *Am. J. Ophthalmol.*, 1951, **34**, 442, (pharmacol)

Lippold, B.C. *et al.*, *Arzneim.-Forsch.*, 1974, **24**, 1952, (Bromide)

Roberts, F. *et al.*, *Br. J. Pharmacol.*, 1976, **57**, 395, (pharmacol)

Birdsall, N.J.M. *et al.*, *Mol. Pharmacol.*, 1978, **14**, 723, (pharmacol)

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