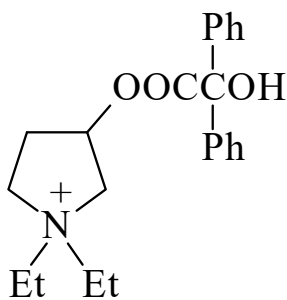




>>Entry Name: **Benzilonium(1+)**

Synonym(s): 1,1-Diethyl-3-[(hydroxydiphenylacetyl)oxy]pyrrolidinium, 9Cl. 1,1-Diethyl-3-hydroxypyrrolidinium benzilate, 8Cl



Molecular Formula: $C_{22}H_{28}NO_3^{(+)}$

Molecular Weight: 354.468

Accurate Mass: 354.206919

Percentage Composition: C 74.55%; H 7.96%; N 3.95%; O 13.54%

>>Variant: (±)-form

Molecular Formula: $C_{22}H_{28}NO_3$

Molecular Weight: 354.468

Accurate Mass: 354.206919

Percentage Composition: C 74.55%; H 7.96%; N 3.95%; O 13.54%

>>Derivative: Bromide

Synonym(s): **Benzilonium bromide**, BAN, INN, JAN, USAN. Minelcin. Minelco. Minelsin. Ortyn. Partyn. Portyn. Pyrbenine. Ulcoban. CI 379. CN 20172-3. PU 239

CAS Registry Number: 1050-48-2

Molecular Formula: $C_{22}H_{28}BrNO_3$

Molecular Weight: 434.372

Accurate Mass: 433.145255

Percentage Composition: C 60.83%; H 6.50%; Br 18.40%; N 3.22%; O 11.05%

Use/Importance: Muscarinic receptor antagonist with peripheral effects similar to those of atropine. Anticholinergic drug. Investigated for treatment of urinary incontinence

Melting Point: Mp 203-204°

Hazard & Toxicity: LD₅₀ (rat, orl) 760 mg/kg

References:

Ryan, C.W. *et al.*, *J.O.C.*, 1962, **27**, 2901, (*synth*)

Kingsley, P.J. *et al.*, *Eur. J. Clin. Pharmacol.*, 1974, **7**, 141, (*pharmacol*)

Dahlström, H. *et al.*, *J. Chromatogr.*, 1980, **183**, 511, (*gc-ms*)

Nyman, C.R., *Urol. Int.*, 1980, **35**, 363; 1981, **36**, 67, (*pharmacol, man*)

Martindale, The Extra Pharmacopoeia, 31st edn., Pharmaceutical Press, 1996, 494