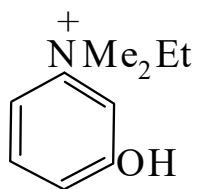




>>>Entry Name: Edrophonium(1+)

**Synonym(s):** *N*-Ethyl-3-hydroxy-*N,N*-dimethylbenzenaminium, 9Cl. Ethyl(*m*-hydroxyphenyl)dimethylammonium, 8Cl. *N*-Ethyl-*N*-(3-hydroxyphenyl)-*N,N*-dimethylammonium. 3-Hydroxyphenyldimethylethylammonium



**CAS Registry Number:** 312-48-1

**Molecular Formula:** C<sub>10</sub>H<sub>16</sub>NO<sup>(+)</sup>

**Molecular Weight:** 166.242

**Accurate Mass:** 166.123189

**Percentage Composition:** C 72.25%; H 9.70%; N 8.43%; O 9.62%

>>>Derivative: Chloride

**Synonym(s):** Edrophonium chloride, BAN, INN. Antirex. Tensilon

**CAS Registry Number:** 116-38-1

**Type of Compound Code(s):** XA3670 XA1300

**Molecular Formula:** C<sub>10</sub>H<sub>16</sub>ClNO

**Molecular Weight:** 201.695

**Accurate Mass:** 201.092041

**Percentage Composition:** C 59.55%; H 8.00%; Cl 17.58%; N 6.94%; O 7.93%

**Use/Importance:** Anticholinesterase. Cholinergic agent, smooth muscle stimulant, antidote to curare and other non-depolarising muscle relaxants. Used for diagnosis of myasthenia gravis

**Melting Point:** Mp 162-163°

**Sigma:** E3256

>>>Derivative: Bromide

**Synonym(s):** Edrophonium bromide, BAN. Tensilon. Ro 2-3198

**CAS Registry Number:** 302-83-0

**Type of Compound Code(s):** XA1300 XA3670

**Molecular Formula:** C<sub>10</sub>H<sub>16</sub>BrNO

**Molecular Weight:** 246.146

**Accurate Mass:** 245.061525

**Percentage Composition:** C 48.80%; H 6.55%; Br 32.46%; N 5.69%; O 6.50%

**Physical Description:** Cryst. with bitter taste (EtOH/Et<sub>2</sub>O)

**Melting Point:** Mp 151-152 dec.°

**Hazard & Toxicity:** LD<sub>50</sub> (mus, orl) 600 mg/kg. LD<sub>50</sub> (mus, ivn) 9 mg/kg

**References:**

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Lands, A.M. *et al.*, *J. Pharmacol. Exp. Ther.*, 1957, **119**, 541, (*pharmacol*)

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