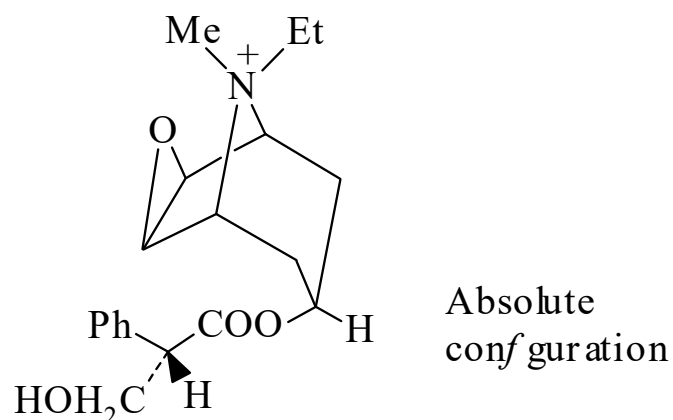




>>Entry Name: Oxitropium(1+)

**Synonym(s):** 9-Ethyl-7-(3-hydroxy-1-oxo-2-phenylpropoxy)-9-methyl-3-oxa-9-azoniatricyclo[3.3.1.0<sup>2,4</sup>]nonane, 9Cl. 8-Ethyl-3-tropoyloxy-6,7-epoxytropanium(1+). Ethylhyoscine



**Molecular Formula:** C<sub>19</sub>H<sub>26</sub>NO<sub>4</sub><sup>(+)</sup>

**Molecular Weight:** 332.419

**Accurate Mass:** 332.186184

**Percentage Composition:** C 68.65%; H 7.88%; N 4.21%; O 19.25%

>>Derivative: Bromide

**Synonym(s):** Oxitropium bromide, BAN, INN, JAN, USAN. Scopolamine ethobromide. Balsigan. Oxivent. Tersigan. Tersigat. Ventilat. Ventox. BA 253. Pulsigan

**CAS Registry Number:** 30286-75-0

**Molecular Formula:** C<sub>19</sub>H<sub>26</sub>BrNO<sub>4</sub>

**Molecular Weight:** 412.323

**Accurate Mass:** 411.12452

**Percentage Composition:** C 55.35%; H 6.36%; Br 19.38%; N 3.40%; O 15.52%

**Use/Importance:** Anticholinergic agent, bronchodilator

**Development Status:** Launched 1983

**Melting Point:** Mp 203-204°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>21</sup> -21 (c, 2.0 in H<sub>2</sub>O)

**Hazard & Toxicity:** LD<sub>50</sub> (rat, orl) 2250 mg/kg. LD<sub>50</sub> (rat, ivn) 19 mg/kg. Exp. fetotoxic effects

>>Derivative: Iodide

**CAS Registry Number:** 17812-50-9

**References:**

- U.S. Pat., 1969, *Boehringer Ingelheim*, 3 472 861; *CA*, **74**, 22811v, (synth)  
Barlow, R.B. *et al.*, *J. Med. Chem.*, 1973, **16**, 439, (synth, pharmacol, iodide)  
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Beumer, H.M. *et al.*, *Int. J. Clin. Pharmacol., Ther. Toxicol.*, 1981, **19**, 168, (pharmacol)  
Pook, K.H. *et al.*, *Arzneim.-Forsch.*, 1985, **35**, 217; 255; 435, (synth, pharmacol, metab)  
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