



Molecular Formula: C₁₉H₂₄N₂O

Molecular Weight: 296.411

Accurate Mass: 296.188863

Percentage Composition: C 76.99%; H 8.16%; N 9.45%; O 5.40%

Use/Importance: Shows anxiolytic activity

Other Data: Pharmacol. active isomer

>>**Derivative:** Hydrochloride

Synonym(s): Palonosetron hydrochloride, USAN

CAS Registry Number: 135729-62-3

Physical Description: Cryst. (EtOH)

Melting Point: Mp 303° (dec.)

Optical Rotation: [α]_D²⁵ -94.1 (c, 1.0 in CHCl₃)

References:

- Eur. Pat.*, 1991, Syntex, 430 190; *CA*, **115**, 114377b, (*synth, pharmacol*)
Costall, B. *et al.*, *Eur. J. Pharmacol.*, 1993, **234**, 91, (*pharmacol*)
Clark, R.D. *et al.*, *J. Med. Chem.*, 1993, **36**, 2645-2657, (*synth, pharmacol, pmr, cryst struct*)
Wong, E.H.F. *et al.*, *J. Neurochem.*, 1993, **60**, 921; **61**, 1927, (*pharmacol*)
Eglen, R.M. *et al.*, *J. Pharmacol. Exp. Ther.*, 1993, **266**, 535, (*pharmacol*)
Wong, E.H.F. *et al.*, *Br. J. Pharmacol.*, 1995, **114**, 851-859; 860-866, (*pharmacol*)
Graul, A. *et al.*, *Drugs of the Future*, 1996, **21**, 906-910, (*rev, synth, pharmacol*)
Kowalczyk, B.A. *et al.*, *Synthesis*, 1996, 816-818; 2000, 1113-1116, (*synth, ir, pmr, cmr*)
Kowalczyk, B.A. *et al.*, *Org. Process Res. Dev.*, 1997, **1**, 117-120, (*synth*)