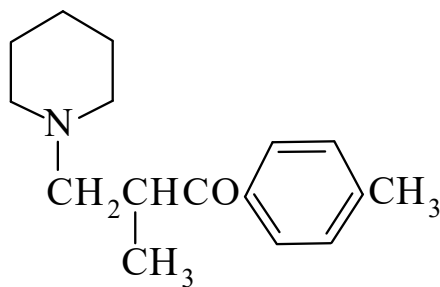




>>Entry Name: Tolperisone, BAN, INN

Synonym(s): 2-Methyl-1-(4-methylphenyl)-3-(1-piperidiny)-1-propanone, 9Cl. 2,4'-Dimethyl-3-piperidinopropiophenone, 8Cl. 2-Methyl-3-piperidino-1-*p*-tolyl-1-propanone. Mydocalm. Many other names



CAS Registry Number: 728-88-1

Molecular Formula: C₁₆H₂₃NO

Molecular Weight: 245.364

Accurate Mass: 245.177964

Percentage Composition: C 78.32%; H 9.45%; N 5.71%; O 6.52%

Use/Importance: Muscle relaxant, spasmolytic. Peripheral vasodilator

>>Variant: (±)-form

Molecular Formula: C₁₆H₂₃NO

Molecular Weight: 245.364

Accurate Mass: 245.177964

Percentage Composition: C 78.32%; H 9.45%; N 5.71%; O 6.52%

Calculated Log P Data: Log P 3.85 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1450 mg/kg

>>Derivative: Hydrochloride

Synonym(s): Tolperisone hydrochloride, JAN. Muscalm

CAS Registry Number: 3644-61-9

Physical Description: Cryst. (2-butanone)

Melting Point: Mp 176-177°

Sigma: T4644

References:

- Porszasz, J. *et al.*, *Arzneim.-Forsch.*, 1961, **11**, 257, (*pharmacol*)
Japan. Pat., 1965, 20 390; *CA*, **63**, 16313, (*synth*)
Tomizawa, S. *et al.*, *Oyo Yakuri*, 1971, **5**, 421, (*pharmacol, tox*)
Japan. Pat., 1978, 40779; *CA*, **89**, 109128, (*resoln*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 4114
Yokoyama, T. *et al.*, *Chem. Pharm. Bull.*, 1992, **40**, 272, (*hplc*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1211
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TKG200