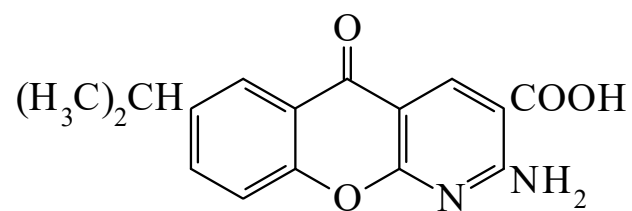




>> **Name:** Amlexanox, INN, JAN, USAN

Synonym(s): 2-Amino-7-isopropyl-5-oxo-5H-[1]benzopyrano[2,3-b]pyridine-3-carboxylic acid. Amoxanox. Elics. Solfa. AA 673



CAS Registry Number: 68302-57-8

Molecular Formula: C₁₆H₁₄N₂O₄

Molecular Weight: 298.298

Accurate Mass: 298.095358

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Use/Importance: Mediator release and lipoxygenase inhibitor. Inhibits SRS-A release and cyclic-AMP phosphodiesterase. Drug for treatment of bronchial asthma. Antiallergic agent

Physical Description: Cryst. (DMF)

Development Status: Launched 1987

Melting Point: Mp 300°

Calculated Log P Data: Log P 2.49 (calc)

Hazard & Toxicity: Can cause allergic and systemic contact dermatitis. LD₅₀ (rat, orl) 10000 mg/kg. LD₅₀ (rat, ipr) 500 mg/kg

References:

- Ukawa, K. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 4432, (*metab*)
Saijo, T. *et al.*, *Int. Arch. Allergy Appl. Immunol.*, 1985, **77**, 315; **78**, 43; 1986, **79**, 231, (*pharmacol*)
Nohara, A. *et al.*, *J. Med. Chem.*, 1985, **28**, 559, (*synth, pharmacol*)
Makino, E. *et al.*, *J. Pharm. Pharmacol.*, 1990, **42**, 236, (*pharmacol*)
Kabasawa, Y. *et al.*, *Contact Dermatitis*, 1991, **24**, 148
Hayakawa, R. *et al.*, *Contact Dermatitis*, 1992, **27**, 122
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1140
Hariya, T. *et al.*, *Contact Dermatitis*, 1994, **31**, 31