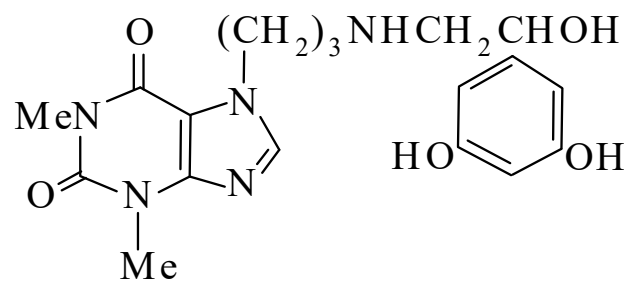




>>>**Entry Name:** Reproterol, BAN, INN

Synonym(s): 7-[3-[[2-(3,5-Dihydroxyphenyl)-2-hydroxyethyl]amino]propyl]-3,7-dihydro-1,3-dimethyl-1*H*-purine-2,6-dione, 9Cl. 7-[3-[(β,3,5-Trihydroxyphenethyl)amino]propyl]theophylline, 8Cl



CAS Registry Number: 54063-54-6

Molecular Formula: C₁₈H₂₃N₅O₅

Molecular Weight: 389.41

Accurate Mass: 389.16992

Percentage Composition: C 55.52%; H 5.95%; N 17.98%; O 20.54%

Use/Importance: β-Adrenoceptor agonist. Bronchodilator

Calculated Log P Data: Log P -0.98 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, ivn) 145 mg/kg

>>>**Derivative:** Hydrochloride

Synonym(s): Reproterol hydrochloride, USAN. Bronchodil. Bronchospasmin. Many other names

CAS Registry Number: 13055-82-8

Physical Description: Cryst.

Melting Point: Mp 249-250°

Hazard & Toxicity: LD₅₀ (rat, orl) >10,000 mg/kg

References:

Fr. Pat., 1970, M5 969; *CA*, **78**, 72216h, (*synth, pharmacol*)

Klinger, K.H. *et al.*, *Arzneim.-Forsch.*, 1977, **27**, 4; 14; 37; 45, (*synth, pharmacol, tox*)

Niebh, G. *et al.*, *Arzneim.-Forsch.*, 1978, **28**, 765, (*metab*)

Marmo, E., *Clin. Ter. (Rome)*, 1981, **98**, 481, (*rev, pharmacol*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 4921

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1254

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DNA600