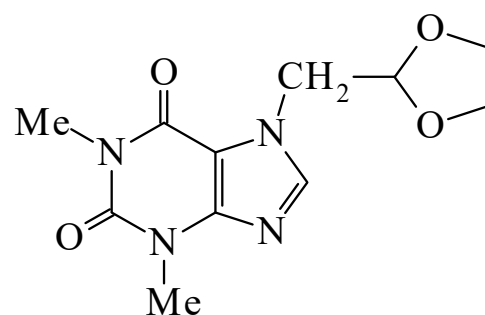




>>Entry Name: **Doxofylline**, INN, USAN

Synonym(s): 7-(1,3-Dioxolan-2-ylmethyl)-3,7-dihydro-1,3-dimethyl-1*H*-purine-2,6-dione, 9Cl. 7-(1,3-Dioxolan-2-ylmethyl)theophylline. 2-(7'-Theophyllinemethyl)-1,3-dioxolane. Ansimar. Maxivent. ABC 12/3



CAS Registry Number: 69975-86-6

Type of Compound Code(s): XA2250 XA2350

Molecular Formula: C₁₁H₁₄N₄O₄

Molecular Weight: 266.256

Accurate Mass: 266.101506

Percentage Composition: C 49.62%; H 5.30%; N 21.04%; O 24.04%

Use/Importance: Antitussive agent used for treatment of bronchospasm

Development Status: Launched 1985

Melting Point: Mp 144-145°

Calculated Log P Data: Log P -0.5 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1022 mg/kg. LD₅₀ (rat, ipr) 445 mg/kg

References:

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Martindale, *The Extra Pharmacopoeia*, 30th edn., *Pharmaceutical Press*, 1993, 1317

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