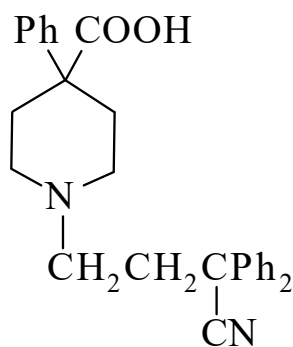




>>Entry Name: **Difenoxin**, BAN, INN, USAN

Synonym(s): 1-(3-Cyano-3,3-diphenylpropyl)-4-phenyl-4-piperidinecarboxylic acid, 9Cl. Difenoxylic acid. Dioctin. **Lyspafen**†. Motofen. Rheatrol. MeN JR 15403-11. R 15403



CAS Registry Number: 28782-42-5

Related CAS Registry Numbers(s): 55840-97-6

Molecular Formula: C₂₈H₂₈N₂O₂

Molecular Weight: 424.541

Accurate Mass: 424.215078

Percentage Composition: C 79.22%; H 6.65%; N 6.60%; O 7.54%

Source/Synthesis: Major metab. of Diphenoxylate

Use/Importance: 5-HT receptor agonist. Antidiarrhoeal, intestinal antisecretory agent

Calculated Log P Data: Log P 1.83 (calc)

>>Derivative: Hydrochloride

CAS Registry Number: 35607-36-4

Physical Description: Powder

Melting Point: Mp 290°

Solubility: Spar. sol. H₂O, org. solvs.

Hazard & Toxicity: LD₅₀ (rat, orl) 149 mg/kg

>>Derivative: Et ester

Synonym(s): **Diphenoxylate**, BAN, INN. 8049 CB. FH 049E. NIH 7562. R 1132

CAS Registry Number: 915-30-0

Molecular Formula: C₃₀H₃₂N₂O₂

Molecular Weight: 452.595

Accurate Mass: 452.246378

Percentage Composition: C 79.61%; H 7.13%; N 6.19%; O 7.07%

Use/Importance: Antidiarrhoeal

Calculated Log P Data: Log P 5.03 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 221 mg/kg

Sigma: D0774

>>Derivative: Et ester; hydrochloride

Synonym(s): **Diphenoxylate hydrochloride**, USAN. Lomotil

CAS Registry Number: 3810-80-8

Physical Description: Cryst.

Melting Point: Mp 220.5-222°

Hazard & Toxicity: Adverse effects incl. drowsiness, euphoria, anorexia, paralytic ileus, toxic megacolon, and hypersensitivity reactions. Prolonged usage can be addictive. LD₅₀ (rat, orl) 221 mg/kg

Sigma: D6029