



>>Entry Name: Amfetaminil, INN

Synonym(s): α -[(1-Methyl-2-phenylethyl)amino]benzeneacetonitrile, 9Cl. [(α -Methylphenethyl)amino]phenylacetonitrile, 8Cl. N-Cyanobenzylamphetamine. Amphetaminil. Aponeuron. AN1

CAS Registry Number: 17590-01-1

PhCH(CN)NHCH(CH3)CH2Ph

Molecular Formula: C₁₇H₁₈N₂

Molecular Weight: 250.343

Accurate Mass: 250.146998

Percentage Composition: C 81.56%; H 7.25%; N 11.19%

Use/Importance: CNS stimulant, psychotropic agent

Melting Point: Mp 85-87°

Calculated Log P Data: Log P 3.14 (calc)

Other Data: Readily converted to amphetamine in aq. soln.

Hazard & Toxicity: LD₅₀ (rat, orl) 37.6 mg/kg. LD₅₀ (rat, ipr) 58.8 mg/kg

References:

Klosa, J., *J. Prakt. Chem.*, 1963, **20**, 275, (synth)

Beyer, K.H. *et al.*, *Dtsch. Apoth. -Ztg.*, 1971, **111**, 677, (synth, pharmacol, uv, tox)

Hoffman, H., *Dtsch. Apoth. -Ztg.*, 1971, **111**, 680, (tlc, pharmacol)

Salvesen, B. *et al.*, *Arzneim.-Forsch.*, 1974, **24**, 133; 134; 137, (pmr, config)

Klosa, J., *Arzneim.-Forsch.*, 1975, **25**, 1252; 1863, (synth)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 1222