>>**Entry Name: Amfetaminil,** INN

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

CAS Registry Number: 17590-01-1

$PhCH(CN)NHCH(CH_3)CH_2Ph$

Molecular Formula: $C_{17}H_{18}N_2$
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: LD_{50} (rat, orl) 37.6 mg/kg. LD_{50} (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)*
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