



>>Entry Name: 2-Methyl-1-phenyl-2-propylamine

Synonym(s): α,α -Dimethylbenzeneethanamine, 9Cl. α,α -Dimethylphenethylamine, 8Cl. 2-Amino-2-methyl-1-phenylpropane. **Phentermine**, BAN, INN, USAN. Ionamine

CAS Registry Number: 122-09-8

Related CAS Registry Numbers(s): 6190-60-9

$\text{PhCH}_2\text{C}(\text{CH}_3)_2\text{NH}_2$

Molecular Formula: $\text{C}_{10}\text{H}_{15}\text{N}$

Molecular Weight: 149.235

Accurate Mass: 149.120449

Percentage Composition: C 80.48%; H 10.13%; N 9.39%

Use/Importance: CNS stimulant. Has hypertensive and anorexic props.

Physical Description: Oil

Boiling Point: Bp_{10} 89-90°

Refractive Index: n_D^{20} 1.5130

Calculated Log P Data: Log P 1.99 (calc)

Rare Chemicals Library: S44026-4

Supelco: R47-1940

>>Derivative: Hydrochloride

Synonym(s): **Phentermine hydrochloride**, USAN. Wilpo. Fastin. Unifast. Adipex-P. Tora

CAS Registry Number: 1197-21-3

Physical Description: Cryst. (2-propanol/diisopropyl ether)

Melting Point: Mp 199-200°

Hazard & Toxicity: LD₅₀ (rat, orl) 188 mg/kg

Rare Chemicals Library: S44027-2

Sigma: P8653

>>Derivative: *N*-Ac

CAS Registry Number: 5531-33-9

Molecular Formula: $\text{C}_{12}\text{H}_{17}\text{NO}$

Molecular Weight: 191.272

Accurate Mass: 191.131014

Percentage Composition: C 75.35%; H 8.96%; N 7.32%; O 8.36%

Physical Description: Cryst.(cyclohexane)

Melting Point: Mp 92°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 51310-28-2

Molecular Formula: $\text{C}_{17}\text{H}_{19}\text{NO}$

Molecular Weight: 253.343

Accurate Mass: 253.146664

Percentage Composition: C 80.60%; H 7.56%; N 5.53%; O 6.32%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 109-110°

>>Derivative: *N*-Me

Synonym(s): **Mephentermine**, BAN, INN. Wyamine

CAS Registry Number: 100-92-5

Use/Importance: Adrenergic, vasoconstrictor

Physical Description: Liq.

Boiling Point: Bp_9 94-97°

Refractive Index: n_D^{20} 1.5112

Calculated Log P Data: Log P 2.14 (calc)

>>Derivative: *N*-Me; sulfate (2:1)

Synonym(s): **Mephentermine sulfate**, USAN. Mephine