



>>Entry Name: 1,1-Diphenylmethylamine, 8Cl

Synonym(s): α -Phenylbenzenemethanamine, 9Cl. α -Aminodiphenylmethane. Benzhydrylamine

CAS Registry Number: 91-00-9

Ph_2CHNH_2

Molecular Formula: $\text{C}_{13}\text{H}_{13}\text{N}$

Molecular Weight: 183.252

Accurate Mass: 183.104799

Percentage Composition: C 85.21%; H 7.15%; N 7.64%

Biological Use/Importance: Inhibitor of smooth muscle spasms

Physical Description: Liq.

Boiling Point: Bp 304°. Bp₁ 125-127°

Density: d_0^{21} 1.064

pKa Value: $\text{p}K_a$ 7.17 (25°, 80% 2-methoxyethanol aq.)

Refractive Index: n_D^{22} 1.5963

Aldrich: A5360-5

Fluka: 7940

Sigma: B5760

>>Derivative: Hydrochloride

CAS Registry Number: 5267-34-5

Physical Description: Needles

Melting Point: Mp 298 dec.°

Aldrich: 17688-5

>>Derivative: *N*-Ac

CAS Registry Number: 5267-35-6

Molecular Formula: $\text{C}_{15}\text{H}_{15}\text{NO}$

Molecular Weight: 225.29

Accurate Mass: 225.115364

Percentage Composition: C 79.97%; H 6.71%; N 6.22%; O 7.10%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 149°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 1485-72-9

Molecular Formula: $\text{C}_{20}\text{H}_{17}\text{NO}$

Molecular Weight: 287.36

Accurate Mass: 287.131014

Percentage Composition: C 83.60%; H 5.96%; N 4.87%; O 5.57%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 174°

>>Derivative: *N*-Me

Synonym(s): α -Methylaminodiphenylmethane. Methylbenzylhydrylamine

CAS Registry Number: 14683-47-7

Molecular Formula: $\text{C}_{14}\text{H}_{15}\text{N}$

Molecular Weight: 197.279

Accurate Mass: 197.120449

Percentage Composition: C 85.24%; H 7.66%; N 7.10%

Physical Description: Cryst. (petrol)

Melting Point: Mp 40°

Boiling Point: Bp₄ 158°

Aldrich: 44530-4

Fluka: 43116

Sigma: M9045