



>>Entry Name: 4-Aminodiphenylmethane

Synonym(s): 4-(Phenylmethyl)benzenamine, 9Cl. α -Phenyl-*p*-toluidine, 8Cl

CAS Registry Number: 1135-12-2

Molecular Formula: $C_{13}H_{13}N$

Molecular Weight: 183.252

Accurate Mass: 183.104799

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

Physical Description: Cryst. (petrol)

Melting Point: Mp 34-35°

>>Derivative: Hydrochloride

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 210 dec.°

>>Derivative: Picrate

Melting Point: Mp 178-180 dec.°

>>Derivative: *N*-Ac

CAS Registry Number: 76472-81-6

Molecular Formula: $C_{15}H_{15}NO$

Molecular Weight: 225.29

Accurate Mass: 225.115364

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

Melting Point: Mp 125-126°

>>Derivative: *N*-(4-Methylbenzenesulfonyl)

Molecular Formula: $C_{20}H_{19}NO_2S$

Molecular Weight: 337.442

Percentage Composition: C 71.19%; H 5.68%; N 4.15%; O 9.48%; S 9.50%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 210-212°

References:

Basler, A., *Ber.*, 1883, **16**, 2714, (*synth*)

Mann, F.G. *et al.*, *J.C.S.*, 1954, 4127, (*synth*)

Stevens, T.S., *Proc. R. Soc. Edinburgh, Sect. A: Math. Phys. Sci.*, 1971, **69**, 251, (*synth*)

Innorta, G. *et al.*, *Org. Mass Spectrom.*, 1973, **7**, 1399, (*ms*)

U.S. Pat., 1976, 3 981 766; *CA*, **85**, 187263h, (*use*)