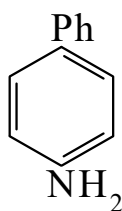




>>Entry Name: 4-Aminobiphenyl

Synonym(s): [1,1'-Biphenyl]-4-amine, 9CI. Xenylamine



CAS Registry Number: 92-67-1

Molecular Formula: C₁₂H₁₁N

Molecular Weight: 169.226

Accurate Mass: 169.089149

Percentage Composition: C 85.17%; H 6.55%; N 8.28%

Use/Importance: Formerly an important dyestuffs intermed. Used for pptn. of SO₄²⁽⁻⁾

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 52.9-53.6°

Boiling Point: Bp 302°. Bp₁₅ 191°. Bp₅ 166°

Other Data: Steam-volatile

Hazard & Toxicity: Human carcinogen. Use prohibited in the UK under the Control of Substances Hazardous to Health Regulations 1988. Occup. exposure associated with bladder cancer. Most potent of the carcinogenic aromatic amines. Exp. carcinogen

Aldrich: A4242-5

Sigma: A3029

Supelco: R43-5304

>>Derivative: Hydrochloride

Physical Description: Cryst. (H₂O)

Melting Point: Mp 285°

>>Derivative: N-Formyl

CAS Registry Number: 5472-79-7

Molecular Formula: C₁₃H₁₁NO

Molecular Weight: 197.236

Accurate Mass: 197.084064

Percentage Composition: C 79.17%; H 5.62%; N 7.10%; O 8.11%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 172°

>>Derivative: N-Ac

CAS Registry Number: 4075-79-0

Molecular Formula: C₁₄H₁₃NO

Molecular Weight: 211.263

Accurate Mass: 211.099714

Percentage Composition: C 79.59%; H 6.20%; N 6.63%; O 7.57%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 171°

Hazard & Toxicity: Exp. carcinogen

>>Derivative: N,N-Di-Ac

Synonym(s): N-(2-[1,1'-Biphenyl]-4-yl-2-oxoethyl)acetamide, 9CI

CAS Registry Number: 71350-69-1

Molecular Formula: C₁₆H₁₅NO₂

Molecular Weight: 253.3

Accurate Mass: 253.110279

Percentage Composition: C 75.87%; H 5.97%; N 5.53%; O 12.63%

Physical Description: Needles (petrol)

Melting Point: Mp 120°