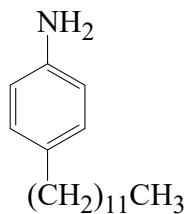




>>Entry Name: 4-Dodecylaniline

Synonym(s): 4-Dodecylbenzenamine, 9CI. 1-(4-Aminophenyl)dodecane. (*p*-Aminododecyl)benzene



CAS Registry Number: 104-42-7

Related CAS Registry Numbers(s): 3510-78-9 76959-12-1

Molecular Formula: C₁₈H₃₁N

Molecular Weight: 261.45

Accurate Mass: 261.245649

Percentage Composition: C 82.69%; H 11.95%; N 5.36%

Use/Importance: Intermed. for azo dyes; salts used in soldering fluxes

Physical Description: Needles (MeOH)

Melting Point: Mp 41.5-42° (29-30°)

Boiling Point: Bp₁₅ 220-221°

Refractive Index: n_D²⁰ 1.5148

Hazard & Toxicity: Fl. p. 110°

>>Derivative: Ac

Molecular Formula: C₂₀H₃₃NO

Molecular Weight: 303.487

Accurate Mass: 303.256214

Percentage Composition: C 79.15%; H 10.96%; N 4.62%; O 5.27%

Physical Description: Platelets (EtOH aq.)

Melting Point: Mp 101.7-102°

>>Derivative: 4-Methylbenzenesulfonyl

Molecular Formula: C₂₅H₃₇NO₂S

Molecular Weight: 415.639

Accurate Mass: 415.254499

Percentage Composition: C 72.24%; H 8.97%; N 3.37%; O 7.70%; S 7.71%

Physical Description: Thin plates (MeOH)

Melting Point: Mp 53-54°

References:

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Wiśniewski, M., *Pol. J. Chem. (Rocz. Chem.)*, 1983, **57**, 593-596, (*synth, pmr, ms, ir, glc*)

Deterding, L.J. *et al.*, *Org. Mass Spectrom.*, 1988, **23**, 169-177, (*ms*)

Schultz, T.W. *et al.*, *Sci. Total Environ.*, 1991, 569-580; 581-587, (*tox*)