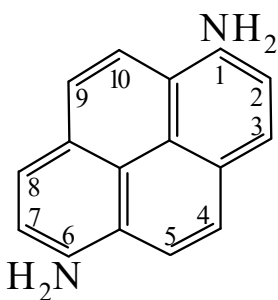




>>Entry Name: 1,6-Pyrenediamine, 9CI

Synonym(s): 1,6-Diaminopyrene. 3,8-Diaminopyrene (obsol.)



CAS Registry Number: 14923-84-3

Molecular Formula: C₁₆H₁₂N₂

Molecular Weight: 232.284

Accurate Mass: 232.100048

Percentage Composition: C 82.73%; H 5.21%; N 12.06%

Use/Importance: Forms many charge-transfer complexes

Melting Point: Mp 238-239° (232-233°)

>>Derivative: 1,6-Di-*N*-Ac

Molecular Formula: C₂₀H₁₆N₂O₂

Molecular Weight: 316.359

Accurate Mass: 316.121178

Percentage Composition: C 75.93%; H 5.10%; N 8.85%; O 10.11%

Melting Point: Mp 410°

>>Derivative: *N,N,N',N'*-Tetra-Me

Synonym(s): 1,6-Bis(dimethylamino)pyrene. BDMAP

Molecular Formula: C₂₀H₂₀N₂

Molecular Weight: 288.391

Accurate Mass: 288.162648

Percentage Composition: C 83.30%; H 6.99%; N 9.71%

Use/Importance: Used as a sensitizer in the photochemical decarboxylation of *N*-acyloxypthalimides

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 164-165°

References:

Vollmann, H. *et al.*, *Annalen*, 1937, **531**, 1, (*synth*)

Neunhoeffer, O. *et al.*, *Annalen*, 1958, **612**, 98, (*uv*)

Okada, H. *et al.*, *J.O.C.*, 1967, **32**, 1322, (*synth, tetra-Me*)

Gerasimenko, Yu.E. *et al.*, *J. Org. Chem. USSR (Engl. Transl.)*, 1970, **6**, 2330, (*synth*)

Shudo, K. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 1992, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1990, **15**, 37, (*use*)