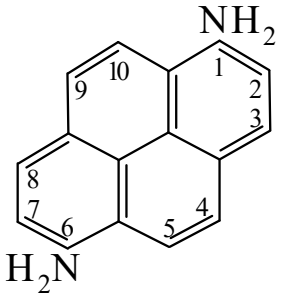
>>**Entry Name: 1,6-Pyrenediamine,** 9CI
Synonym(s): 1,6-Diaminopyrene. 3,8-Diaminopyrene (obsol.)



CAS Registry Number: 14923-84-3

Molecular Formula: $C_{16}H_{12}N_2$
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: $C_{20}H_{16}N_2O_2$
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: $C_{20}H_{20}N_2$
Molecular Weight: 288.391
Accurate Mass: 288.162648
Percentage Composition: C 83.30%; H 6.99%; N 9.71%
Use/Importance: Used as a sensitiser in the photochemical decarboxylation of *N*-acyloxyphthalimides
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)*