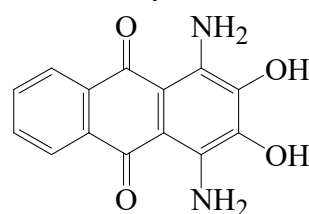




>>Entry Name: **1,4-Diamino-2,3-dihydroxyanthraquinone**

Synonym(s): 1,4-Diamino-2,3-dihydroxy-9,10-anthracenedione, 9Cl. 1,4-Diaminohystazarin



CAS Registry Number: 128-84-7

Molecular Formula: $C_{14}H_{10}N_2O_4$

Molecular Weight: 270.244

Accurate Mass: 270.064058

Percentage Composition: C 62.22%; H 3.73%; N 10.37%; O 23.68%

Physical Description: Dark violet needles

Other Data: Mp >316°

>>Derivative: Di-Me ether

Synonym(s): 1,4-Diamino-2,3-dimethoxyanthraquinone

CAS Registry Number: 7723-00-4

Molecular Formula: $C_{16}H_{14}N_2O_4$

Molecular Weight: 298.298

Accurate Mass: 298.095358

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Physical Description: Purple needles

Melting Point: Mp 189-191°

>>Derivative: Di-Ph ether

Synonym(s): 1,4-Diamino-2,3-diphenoxyanthraquinone. Disperse Violet HFRL. C.I. Disperse Violet 26

CAS Registry Number: 6408-72-6

Molecular Formula: $C_{26}H_{18}N_2O_4$

Molecular Weight: 422.439

Accurate Mass: 422.126658

Percentage Composition: C 73.92%; H 4.29%; N 6.63%; O 15.15%

Use/Importance: Magenta dye used for inks, thermal transfer recording materials, synthetic fibres, etc.

Physical Description: Purple needles

Melting Point: Mp 175-178°

References:

Waldmann, H. *et al.*, *J. Prakt. Chem.*, 1938, **150**, 107-112, (*synth*)

Sadayoshi, M. *et al.*, *CA*, 1967, **66**, 38861g, (*ethers*)

Japan. Pat., 1985, 60 99 168; *CA*, **104**, 70284k, (*di-Ph ether*)