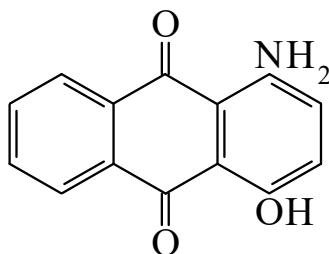




>>Entry Name: 1-Amino-4-hydroxyanthraquinone

Synonym(s): 1-Amino-4-hydroxy-9,10-anthracenedione, 9CI. C.I. Disperse red 15. C.I. Solvent red 53. Celliton fast pink B. C.I. 60710



CAS Registry Number: 116-85-8

Molecular Formula: C₁₄H₉NO₃

Molecular Weight: 239.23

Accurate Mass: 239.058244

Percentage Composition: C 70.29%; H 3.79%; N 5.85%; O 20.06%

Use/Importance: Dyestuff. Used as a soln. in MeOH for fluorimetric detn. of Be, Ga, Pr, Th; used as 0.05% EtOH soln. for kinetic fluorimetric detn. of Ce(IV) ($\lambda_{\max}$ 575 nm, 0.1-1 ppm), Zr

Physical Description: Pink plates (C₆H₆), violet needles (C₆H₆/petrol)

Melting Point: Mp 215° (207-209°)

Solubility: Sol. EtOH, C₆H₆, Me₂CO

Hazard & Toxicity: LD₅₀ (rat, ipr) 2700 mg/kg

Rare Chemicals Library: S32120-6

Sigma: A2645

>>Derivative: Me ether

Synonym(s): 1-Amino-4-methoxyanthraquinone

CAS Registry Number: 116-83-6

Molecular Formula: C₁₅H₁₁NO₃

Molecular Weight: 253.257

Accurate Mass: 253.073894

Percentage Composition: C 71.14%; H 4.38%; N 5.53%; O 18.95%

Physical Description: Needles (toluene)

Melting Point: Mp 186°

Rare Chemicals Library: S39635-4

>>Derivative: N-Me

Synonym(s): 1-Hydroxy-4-(methylamino)anthraquinone. C.I. Disperse blue 22

CAS Registry Number: 6373-16-6

Molecular Formula: C₁₅H₁₁NO₃

Molecular Weight: 253.257

Accurate Mass: 253.073894

Percentage Composition: C 71.14%; H 4.38%; N 5.53%; O 18.95%

Use/Importance: Dyestuff

Physical Description: Violet needles (butanol)

Melting Point: Mp 171.5-172°

References:

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Idriss, K.A. *et al.*, *Analyst (London)*, 1988, **113**, 1643, (*detn, Zr*)

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