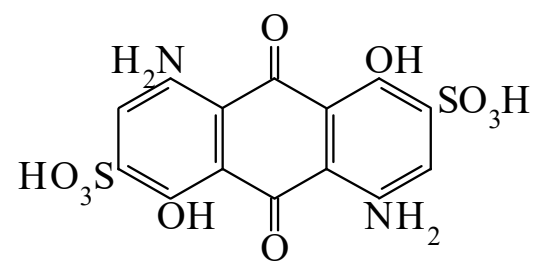




>>Entry Name: 4,8-Diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo-2,6-anthracenedisulfonic acid, 9Cl

Synonym(s): 4,8-Diamino-1,5-dihydroxyanthraquinone-2,6-disulfonic acid. C.I. Acid blue 45. C.I. 63010



CAS Registry Number: 128-86-9

Molecular Formula: C<sub>14</sub>H<sub>10</sub>N<sub>2</sub>O<sub>10</sub>S<sub>2</sub>

Molecular Weight: 430.372

Accurate Mass: 429.977688

Percentage Composition: C 39.07%; H 2.34%; N 6.51%; O 37.18%; S 14.90%

Use/Importance: Used as 1mM aq. soln. for photometric and kinetic fluorimetric detn. of Ce(IV), Mn(VII) ( $\lambda_{\text{max}}$  585 nm, 7-22 ng/ml), Be ( $\lambda_{\text{max}}$  645 nm). Also used as sodium salt

Physical Description: Dark blue cryst.

Solubility: Sol. H<sub>2</sub>O

>>Derivative: Na salt

CAS Registry Number: 2861-02-1

Solubility: Sol. H<sub>2</sub>O; sl. sol. EtOH, Me<sub>2</sub>CO; insol. C<sub>6</sub>H<sub>6</sub>, CCl<sub>4</sub>

Aldrich: 21069-2

Sigma: A5524

#### References:

Navas, A. *et al.*, *An. Quim.*, 1979, **75**, 514; *CA*, **92**, 14768t, (*detn*, Be)

Navas, A. *et al.*, *Mikrochim. Acta*, 1982, **1**, 175, (*detn*, Ce)

Navas, A. *et al.*, *Talanta*, 1984, **31**, 437, (*detn*, Mn)