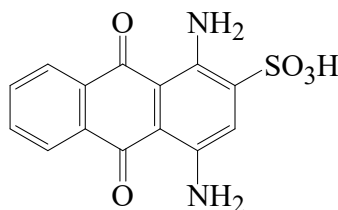




>>Entry Name: 1,4-Diamino-2-anthraquinonesulfonic acid

Synonym(s): 1,4-Diamino-9,10-dihydro-9,10-dioxo-2-anthracenesulfonic acid, 8Cl



**Molecular Formula:** C<sub>14</sub>H<sub>10</sub>N<sub>2</sub>O<sub>5</sub>S

**Molecular Weight:** 318.309

**Accurate Mass:** 318.031043

**Percentage Composition:** C 52.83%; H 3.17%; N 8.80%; O 25.13%; S 10.07%

>>Derivative: 4-*N*-Ph

Synonym(s): 1-Amino-4-anilino-2-anthraquinonesulfonic acid. Alizarine Direct Blue B. Alizarine Saphirol A. C.I. Acid Blue 25. C.I. 62055

**CAS Registry Number:** 2786-71-2

**Extra CAS Registry Numbers(s):** 6408-78-2

**Molecular Formula:** C<sub>20</sub>H<sub>14</sub>N<sub>2</sub>O<sub>5</sub>S

**Molecular Weight:** 394.407

**Accurate Mass:** 394.062343

**Percentage Composition:** C 60.91%; H 3.58%; N 7.10%; O 20.28%; S 8.13%

**Use/Importance:** Dye for polyamide fibres

**Physical Description:** Light blue needles (H<sub>2</sub>O) (as Na salt)

**Solubility:** Sol. Me<sub>2</sub>CO, EtOH (Na salt)

**UV:** [neutral] λ<sub>max</sub> 600 () (no solvent reported)

**Other Data:** Normally obt. as Na salt, to which trade names refer

>>Derivative: 4-*N*-(4-Acetamidophenyl)

Synonym(s): Acid Alizarine Blue 2G. Alizarine Direct Blue AGG. Telon Blue GLL. C.I. Acid Blue 40. C.I. 62125

**CAS Registry Number:** 6424-85-7

**Extra CAS Registry Numbers(s):** 6247-34-3

**Molecular Formula:** C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>S

**Molecular Weight:** 451.459

**Accurate Mass:** 451.083807

**Percentage Composition:** C 58.53%; H 3.80%; N 9.31%; O 21.26%; S 7.10%

**Use/Importance:** Dye for polyamide fibres

**Solubility:** Sol. Me<sub>2</sub>CO, EtOH (as Na salt)

**Other Data:** Normally obt. as Na salt, to which trade names refer

**References:**

Lynas-Gray, J.I. *et al.*, *J.C.S.*, 1943, 45-47, (4-*N*-Ph)

Tran Dink Tuong *et al.*, *Bull. Chem. Soc. Jpn.*, 1970, **43**, 1763-1768, (4-*N*-Ph)

*Colour Index*, 3rd edn., 1971, **4**, 4546; 4548

Philip, G. *et al.*, *Chem. Ind. (London)*, 1975, 433, (4-*N*-Ph)

Damek, M. *et al.*, *Chem. Prum.*, 1978, **28**, 423-425; *CA*, **89**, 181214d, (4-*N*-acetamidophenyl)

Nakashima, M. *et al.*, *Spectrosc. Lett.*, 1979, **12**, 139-150, (4-*N*-acetamidophenyl, spectra)

*Czech. Pat.*, 1982, 202 968; *CA*, **98**, 108874a, (4-*N*-acetamidophenyl)