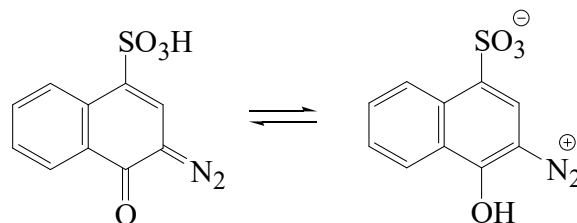




>>Entry Name: 3-Diazo-3,4-dihydro-4-oxo-1-naphthalenesulfonic acid

Synonym(s): 1-Hydroxy-4-sulfo-2-naphthalenediazonium inner salt. 2-Diazo-1-naphthol-4-sulfonic acid



CAS Registry Number: 20680-48-2

Extra CAS Registry Numbers(s): 887-77-4 33670-74-5 64173-96-2

Molecular Formula: C₁₀H₆N₂O₄S

Molecular Weight: 250.234

Accurate Mass: 250.004828

Percentage Composition: C 48.00%; H 2.42%; N 11.19%; O 25.58%; S 12.81%

Physical Description: Cryst. (EtOH) (as Na salt)

Other Data: Mp >300° (Na salt)

>>Derivative: Et ester

CAS Registry Number: 86234-94-8

Molecular Formula: C₁₂H₁₀N₂O₄S

Molecular Weight: 278.288

Accurate Mass: 278.036128

Percentage Composition: C 51.79%; H 3.62%; N 10.07%; O 23.00%; S 11.52%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 152-156° (dec.)

>>Derivative: Ph ester

CAS Registry Number: 110673-14-8

Molecular Formula: C₁₆H₁₀N₂O₄S

Molecular Weight: 326.332

Accurate Mass: 326.036128

Percentage Composition: C 58.89%; H 3.09%; N 8.58%; O 19.61%; S 9.83%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 151-154° (dec.)

>>Derivative: Chloride

CAS Registry Number: 36451-09-9

Molecular Formula: C₁₀H₅ClN₂O₃S

Molecular Weight: 268.68

Accurate Mass: 267.97094

Percentage Composition: C 44.70%; H 1.88%; Cl 13.20%; N 10.43%; O 17.86%; S 11.93%

Use/Importance: Used in the manuf. of photosensitive compds.

Physical Description: Cryst.

Melting Point: Mp 146-148°

References:

Gey, E. *et al.*, *J. Prakt. Chem.*, 1985, **327**, 261-269, (*cmr*)

Sauer, E. *et al.*, *J. Prakt. Chem.*, 1991, **333**, 467-473, (*synth*)

Baumbach, B. *et al.*, *J. Prakt. Chem.*, 1991, **333**, 625-635, (*esters, synth, ir, uv, pmr, ms*)