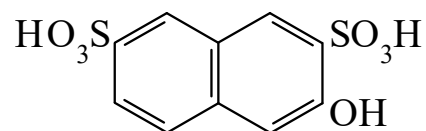




>>Entry Name: 3-Hydroxy-2,7-naphthalenedisulfonic acid, 9CI

Synonym(s): 2-Naphthol-3,6-disulfonic acid. R Acid



CAS Registry Number: 148-75-4

Related CAS Registry Numbers(s): 135-51-3

Molecular Formula: C₁₀H₈O₇S₂

Molecular Weight: 304.301

Accurate Mass: 303.971145

Percentage Composition: C 39.47%; H 2.65%; O 36.80%; S 21.08%

Use/Importance: Important azo dyestuffs intermed. Used as an aq. soln. of salt as acid-base fluorescent indicator (pH range: 9.0-9.5); for photometric detn. of Fe(III)

Physical Description: Needles

pKa Value: pK_{a3} 9.23 (25°, 0.1M NaClO₄ di-Na salt)

Hazard & Toxicity: Exp. reprod. and teratogenic effects (di-Na salt)

>>Derivative: Anilide

Molecular Formula: C₂₂H₁₈N₂O₅S₂

Molecular Weight: 454.527

Accurate Mass: 454.065713

Percentage Composition: C 58.14%; H 3.99%; N 6.16%; O 17.60%; S 14.11%

Melting Point: Mp 202°

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