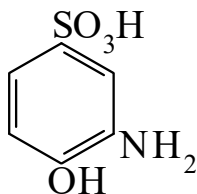




>>Entry Name: 3-Amino-4-hydroxybenzenesulfonic acid, 9Cl

Synonym(s): 2-Aminophenol-4-sulfonic acid



CAS Registry Number: 98-37-3

Molecular Formula: C₆H₇NO₄S

Molecular Weight: 189.192

Accurate Mass: 189.009579

Percentage Composition: C 38.09%; H 3.73%; N 7.40%; O 33.83%; S 16.95%

Use/Importance: Used as 1% aq. soln. of the Na salt for photometric detn. of Os

Physical Description: Rhombohedra (H₂O)

Melting Point: Mp 155-156°

pKa Value: pK_{a1} 4.12; pK_{a2} 9.15 (20°)

Aldrich: 38777-0

Fluka: 9180

>>Derivative: O,N-Di-Ac

Molecular Formula: C₁₀H₁₁NO₆S

Molecular Weight: 273.266

Accurate Mass: 273.030709

Percentage Composition: C 43.95%; H 4.06%; N 5.13%; O 35.13%; S 11.73%

Melting Point: Mp 43° (as hydrochloride)

>>Derivative: Amide

CAS Registry Number: 98-32-8

Molecular Formula: C₆H₈N₂O₃S

Molecular Weight: 188.207

Accurate Mass: 188.025563

Percentage Composition: C 38.29%; H 4.28%; N 14.88%; O 25.50%; S 17.04%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 202°

>>Derivative: Anilide

Molecular Formula: C₁₂H₁₂N₂O₃S

Molecular Weight: 264.304

Accurate Mass: 264.056863

Percentage Composition: C 54.53%; H 4.58%; N 10.60%; O 18.16%; S 12.13%

Melting Point: Mp 205° (172°)

References:

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Minevitch, J.R., *CA*, 1922, **16**, 2994, (*synth*)

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Kermack, W.O. *et al.*, *J.C.S.*, 1939, 608-610, (*amide, synth*)

Williams, T., *J.C.S.*, 1942, 708, (*deriv*)

Majumdar, A.K. *et al.*, *Anal. Chim. Acta*, 1960, **22**, 306, (*detn, Os*)

Tripathi, S., *Indian J. Chem.*, 1973, **11**, 817, (*anal*)

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