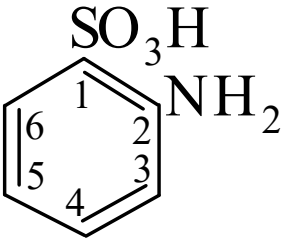




->Entry Name: 2-Aminobenzenesulfonic acid, 90
Synonym(s): Orthoaminic acid, 92; Aniline-o-sulfonic acid



CAS Registry Number: 88-21-1

Molecular Formula: C₆H₇NO₃S
Molecular Weight: 173.192
Accurate Mass: 173.014664
Percentage Composition: C 41.61%; H 4.07%; N 8.09%; O 27.71%; S 18.51%
Use/Importance: Used for photometric detn. of NO₂⁺, Os
Physical Description: Cryst. + % H₂O
Melting Point: Mp 315 dec.^o
pKa Value: pK_a 2.48 (25°)

Aldrich: A8680-5
Fluka: 75520
Sigma: O7003

->Derivative: Fluoride

CAS Registry Number: 392-86-9
Molecular Formula: C₆H₆FN₂O₃S
Molecular Weight: 175.183
Accurate Mass: 175.010327
Percentage Composition: C 41.14%; H 3.45%; F 10.84%; N 8.00%; O 18.27%; S 18.30%
Melting Point: Mp 64-66°

->Derivative: Amide
Synonym(s): 2-Aminobenzenesulfonamide, Orthanilamide

CAS Registry Number: 3306-62-5
Molecular Formula: C₆H₇N₂O₃S
Molecular Weight: 172.207
Accurate Mass: 172.030648
Percentage Composition: C 41.85%; H 4.68%; N 16.27%; O 18.58%; S 18.62%
Physical Description: Needles
Melting Point: Mp 153°

Aldrich: 24588-7

->Derivative: N-Me

Synonym(s): 2-(Methylamino)benzenesulfonic acid, 921

CAS Registry Number: 70916-29-9
Molecular Formula: C₇H₉NO₃S
Molecular Weight: 187.219
Accurate Mass: 187.030314
Percentage Composition: C 44.91%; H 4.85%; N 7.48%; O 25.64%; S 17.13%
Melting Point: Mp 182 dec.^o, Mp 220 dec.^o

->Derivative: N-Me, amide

CAS Registry Number: 21639-28-1
Molecular Formula: C₇H₁₀N₂O₃S
Molecular Weight: 186.234
Accurate Mass: 186.040298
Percentage Composition: C 45.15%; H 5.41%; N 15.04%; O 17.18%; S 17.22%
Physical Description: Needles (H₂O)
Melting Point: Mp 114.5-115.9°

->Derivative: N-Di-Me

Synonym(s): 2-(Dimethylamino)benzenesulfonic acid

CAS Registry Number: 14503-46-9
Molecular Formula: C₈H₁₁NO₃S
Molecular Weight: 201.246
Accurate Mass: 201.045964
Percentage Composition: C 47.75%; H 5.51%; N 6.96%; O 23.85%; S 15.93%
Physical Description: Cryst. (H₂O)
Melting Point: Mp 229-230°

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