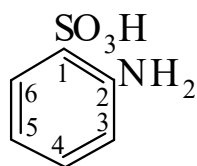




>>Entry Name: 2-Aminobenzenesulfonic acid, 9CI

Synonym(s): Orthanilic acid, 8CI. 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. + ½ H₂O

Melting Point: Mp 315 dec.°

pKa Value: pK_a 2.48 (25°)

Aldrich: A8680-5

Fluka: 75520

Sigma: O7003

>>Derivative: Fluoride

CAS Registry Number: 392-86-9

Molecular Formula: C₆H₆FNO₂S

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: C₆H₈N₂O₂S

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, 9CI

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.°. Mp 220 dec.°

>>Derivative: *N*-Me, amide

CAS Registry Number: 21639-28-1

Molecular Formula: C₇H₁₀N₂O₂S

Molecular Weight: 186.234

Accurate Mass: 186.046298

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°