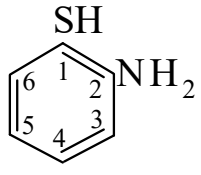
>>**Entry Name: 2-Aminobenzenethiol,** 9CI
Synonym(s): *o*-Aminophenyl mercaptan. *o*-Aminothiophenol. *o*-Mercaptoaniline



CAS Registry Number: 137-07-5

Molecular Formula: C_6H_7NS
Molecular Weight: 125.194
Accurate Mass: 125.029919
Percentage Composition: C 57.56%; H 5.64%; N 11.19%; S 25.61%
Use/Importance: Use in extraction-photometric detn. of Mo ($CHCl_3$), and as an indicator in potentiometric acid-base titrations
Physical Description: Needles
Melting Point: Mp 26°
Boiling Point: Bp 234°. Bp_4 94-97°. Bp_6 125-127°
pKa Value: pK_{a1} 3; pK_{a2} 6.59 (20°)

Aldrich: 27424-0
Fluka: 9490
Sigma: A5661

>>**Derivative:** Hydrochloride

CAS Registry Number: 3292-42-0
Physical Description: Cryst. (H_2O)
Melting Point: Mp 217°

>>**Derivative:** *N*-Ac

Molecular Formula: C_8H_9NOS
Molecular Weight: 167.231
Accurate Mass: 167.040484
Percentage Composition: C 57.46%; H 5.42%; N 8.38%; O 9.57%; S 19.17%
Melting Point: Mp 114.5-115.5°

>>**Derivative:** *N*,*S*-Di-Ac

Molecular Formula: $C_{10}H_{11}NO_2S$
Molecular Weight: 209.268
Accurate Mass: 209.051049
Percentage Composition: C 57.40%; H 5.30%; N 6.69%; O 15.29%; S 15.32%
Physical Description: Rods (EtOH)
Melting Point: Mp 135°

>>**Derivative:** *N*-Me
Synonym(s): 2-(Methylamino)benzenethiol

CAS Registry Number: 21749-63-3
Molecular Formula: C_7H_9NS
Molecular Weight: 139.221
Accurate Mass: 139.045569
Percentage Composition: C 60.39%; H 6.52%; N 10.06%; S 23.03%
Use/Importance: Used for selective protection of carbonyl groups. Used in protection of aldehydes and ketones
Boiling Point: Bp_{18} 126-127°. Bp_{12} 115-120°

>>**Derivative:** *N*-Et

CAS Registry Number: 1074-18-6
Molecular Formula: $C_8H_{11}NS$
Molecular Weight: 153.248
Accurate Mass: 153.061219
Percentage Composition: C 62.70%; H 7.23%; N 9.14%; S 20.92%
Boiling Point: Bp_{20} 129-130°