>>**Entry Name: 4-Aminobenzenethiol,** 9CI
Synonym(s): *p*-Aminophenyl mercaptan. *p*-Aminothiophenol. *p*-Mercaptoaniline

CAS Registry Number: 1193-02-8

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: Corrosion inhibitor for metal surfaces
Physical Description: Granular cryst.
Melting Point: Mp 46°
Boiling Point: Bp_{15} 142°
pKa Value: pK_a 7.47 (20°, 20% EtOH aq.)
Other Data: Steam-volatile

Aldrich: A8100-5
Fluka: 9493
Sigma: A8395

>>**Derivative:** Hydrochloride

Physical Description: Cryst. (EtOH)
Melting Point: Mp 197°

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

CAS Registry Number: 1126-81-4
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%
Physical Description: Scales (cryst. <70°) or yellow leaflets (cryst. >70°)
Melting Point: Mp 154° (both forms)
Aldrich: A820-1

>>**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: Leaflets (H_2O)
Melting Point: Mp 146-147°

>>**Derivative:** *N*-Me
Synonym(s): 4-(Methylamino)benzenethiol

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%
Boiling Point: Bp_{15} 155°

>>**Derivative:** *N*,*N*-Di-Me
Synonym(s): 4-(Dimethylamino)benzenethiol

CAS Registry Number: 4946-22-9
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%
Melting Point: Mp 28.5°
Boiling Point: Bp_{25} 162-168°. $Bp_{9.5}$ 113.5-117° (lit. gives a pressure range)