



**Molecular Formula:** C<sub>8</sub>H<sub>11</sub>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<sub>6</sub> 128-130°

>>Derivative: *N,N*-Di-Et  
Synonym(s): 4-(Diethylamino)benzenethiol

**Molecular Formula:** C<sub>10</sub>H<sub>15</sub>NS  
**Molecular Weight:** 181.301  
**Accurate Mass:** 181.092519  
**Percentage Composition:** C 66.25%; H 8.34%; N 7.73%; S 17.69%  
**Boiling Point:** Bp<sub>9.5</sub> 130-134° (lit. gives a pressure range)

>>Derivative: *S*-Me  
Synonym(s): 4-(Methylthio)aniline. *p*-Thioanisidine. 4-Aminothioanisole

**CAS Registry Number:** 104-96-1  
**Molecular Formula:** C<sub>7</sub>H<sub>9</sub>NS  
**Molecular Weight:** 139.221  
**Accurate Mass:** 139.045569  
**Percentage Composition:** C 60.39%; H 6.52%; N 10.06%; S 23.03%  
**Physical Description:** Yellow liq.  
**Boiling Point:** Bp 272-273°. Bp<sub>15</sub> 139°  
**Density:** d<sub>4</sub><sup>20</sup> 1.14  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.6395

**Aldrich:** M5450-3  
**Fluka:** 67792

>>Derivative: *S*-Me, *S,S*-dioxide  
Synonym(s): 4-(Methylsulfonyl)aniline

**CAS Registry Number:** 5470-49-5  
**Molecular Formula:** C<sub>7</sub>H<sub>9</sub>NO<sub>2</sub>S  
**Molecular Weight:** 171.22  
**Accurate Mass:** 171.035399  
**Percentage Composition:** C 49.10%; H 5.30%; N 8.18%; O 18.69%; S 18.73%  
**Physical Description:** Cryst. (H<sub>2</sub>O)  
**Melting Point:** Mp 137°

>>Derivative: *S*-Et  
Synonym(s): 4-(Ethylthio)aniline

**CAS Registry Number:** 3463-02-3  
**Molecular Formula:** C<sub>8</sub>H<sub>11</sub>NS  
**Molecular Weight:** 153.248  
**Accurate Mass:** 153.061219  
**Percentage Composition:** C 62.70%; H 7.23%; N 9.14%; S 20.92%  
**Physical Description:** Yellow oil  
**Boiling Point:** Bp 280-281°. Bp<sub>15</sub> 155°

>>Derivative: *N,N,S*-Tri-Me  
Synonym(s): 1-(Dimethylamino)-4-(methylthio)benzene

**CAS Registry Number:** 2388-51-4  
**Molecular Formula:** C<sub>9</sub>H<sub>13</sub>NS  
**Molecular Weight:** 167.274  
**Accurate Mass:** 167.076869  
**Percentage Composition:** C 64.62%; H 7.83%; N 8.37%; S 19.17%  
**Physical Description:** Cryst. (MeOH aq.)  
**Melting Point:** Mp 23°  
**Boiling Point:** Bp<sub>20</sub> 159-160°. Bp<sub>3</sub> 112-114°  
**Rare Chemicals Library:** S83597-8