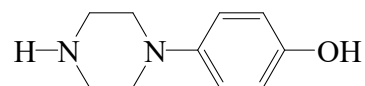




>>Entry Name: 4-Piperazinyphenol, 9Cl  
Synonym(s): 1-(4-Hydroxyphenyl)piperazine



Related CAS Registry Numbers(s): 117208-67-0

**Molecular Formula:** C<sub>10</sub>H<sub>14</sub>N<sub>2</sub>O  
**Molecular Weight:** 178.233  
**Accurate Mass:** 178.110613  
**Percentage Composition:** C 67.39%; H 7.92%; N 15.72%; O 8.98%  
**Physical Description:** Cryst. (EtOH) (as hydrobromide)  
**Melting Point:** Mp 177-178° (hydrobromide)

>>Derivative: *N*-Ac

**Molecular Formula:** C<sub>12</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight:** 220.271  
**Accurate Mass:** 220.121178  
**Percentage Composition:** C 65.43%; H 7.32%; N 12.72%; O 14.53%  
**Physical Description:** Cryst. (EtOH)  
**Melting Point:** Mp 177-178°

>>Derivative: Me ether

Synonym(s): 1-(4-Methoxyphenyl)piperazine

**Molecular Formula:** C<sub>11</sub>H<sub>16</sub>N<sub>2</sub>O  
**Molecular Weight:** 192.26  
**Accurate Mass:** 192.126263  
**Percentage Composition:** C 68.72%; H 8.39%; N 14.57%; O 8.32%  
**Physical Description:** Cryst. (cyclohexane/petrol)  
**Melting Point:** Mp 82-86°  
**Boiling Point:** Bp<sub>0.3</sub> 118°

>>Derivative: Me ether, hydrochloride

**CAS Registry Number:** 84145-43-7  
**Physical Description:** Cryst. (EtOH)  
**Melting Point:** Mp 211-212°

>>Derivative: Me ether, hydrochloride (2:1)

**CAS Registry Number:** 38869-47-5  
**Melting Point:** Mp 240° (dec.)  
**Aldrich:** M2300-4

>>Derivative: *N,N,O*-Tri-Me

**Molecular Formula:** C<sub>13</sub>H<sub>21</sub>N<sub>2</sub>O<sup>(+)</sup>  
**Molecular Weight:** 221.322  
**Accurate Mass:** 221.165388  
**Percentage Composition:** C 70.55%; H 9.56%; N 12.66%; O 7.23%  
**Physical Description:** Cryst. (MeOH) (as iodide)  
**Melting Point:** Mp 219-220° (iodide)

#### References:

Prelog, V. *et al.*, *Coll. Czech. Chem. Comm.*, 1934, **6**, 211, (*synth, derivs*)  
Valenta, V. *et al.*, *Coll. Czech. Chem. Comm.*, 1990, **55**, 797, (*synth, derivs, pmr*)