



>>Entry Name: **2,4-Diaminophenol**, 9Cl, 8Cl  
Synonym(s): 4-Hydroxy-*m*-phenylenediamine

CAS Registry Number: 95-86-3

Molecular Formula: C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>O  
Molecular Weight: 124.142  
Accurate Mass: 124.063663  
Percentage Composition: C 58.05%; H 6.50%; N 22.57%; O 12.89%  
Physical Description: Leaflets  
Melting Point: Mp 78-80 dec.°  
Other Data: Unstable and rapidly darkens in air

Rare Chemicals Library: S63758-0

>>Derivative: Hydrochloride (1:2)  
Synonym(s): Amidol‡

CAS Registry Number: 137-09-7  
Use/Importance: Used in photographic developers and hair dyes  
Hazard & Toxicity: Mild irritant and allergen

Aldrich: 23010-3  
Fluka: 33230  
Rare Chemicals Library: S67791-4  
Sigma: D8029

>>Derivative: Sulfate  
Synonym(s): Diamol

CAS Registry Number: 74283-34-4  
Use/Importance: Used in photographic developers

>>Derivative: 1,2,4-Tri-Ac

Molecular Formula: C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>  
Molecular Weight: 250.254  
Accurate Mass: 250.095358  
Percentage Composition: C 57.59%; H 5.64%; N 11.19%; O 25.57%  
Melting Point: Mp 180-182°

>>Derivative: Me ether  
Synonym(s): 4-Methoxy-1,3-benzenediamine. 2,4-Diamino-1-methoxybenzene. 2,4-Diaminoanisole

CAS Registry Number: 615-05-4  
Molecular Formula: C<sub>7</sub>H<sub>10</sub>N<sub>2</sub>O  
Molecular Weight: 138.169  
Accurate Mass: 138.079313  
Percentage Composition: C 60.85%; H 7.29%; N 20.27%; O 11.58%  
Physical Description: Needles  
Melting Point: Mp 68°  
Hazard & Toxicity: Possible human carcinogen. Skin irritant. LD<sub>50</sub> (rat, orl) 460 mg/kg. Exp. reprod. effects

>>Derivative: Me ether, N<sup>4</sup>-Ac  
Synonym(s): *N*-(3-Amino-4-methylphenyl)acetamide, 9Cl, 8Cl. 3'-Amino-4'-methoxyacetanilide

CAS Registry Number: 6375-47-9  
Molecular Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 180.206  
Accurate Mass: 180.089878  
Percentage Composition: C 59.99%; H 6.71%; N 15.55%; O 17.76%  
Use/Importance: Dye stuff intermediate  
Physical Description: Cryst.  
Melting Point: Mp 110-110.5°  
Hazard & Toxicity: Poss. carcinogen