



>>Entry Name: 3-Hydroxyazobenzene

Synonym(s): 3-(Phenylazo)phenol, 9Cl. *m*-Benzeneazophenol

CAS Registry Number: 2437-11-8

Molecular Formula: C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Physical Description: Yellow prisms (C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 114-117°

>>Derivative: Ac

Molecular Formula: C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Physical Description: Orange plates (petrol)

Melting Point: Mp 67.5°

>>Derivative: Benzoyl

Molecular Formula: C<sub>19</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 302.332

Accurate Mass: 302.105528

Percentage Composition: C 75.48%; H 4.67%; N 9.27%; O 10.58%

Physical Description: Orange-red plates (petrol)

Melting Point: Mp 92°

>>Derivative: Me ether

Synonym(s): 3-Methoxyazobenzene

CAS Registry Number: 34238-81-8

Molecular Formula: C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>O

Molecular Weight: 212.251

Accurate Mass: 212.094963

Percentage Composition: C 73.57%; H 5.70%; N 13.20%; O 7.54%

Physical Description: Red plates (MeOH)

Melting Point: Mp 32-33°

Boiling Point: Bp<sub>15</sub> 193°

Solubility: BERDY SOL: Sol. Et<sub>2</sub>O, MeOH

UV: [neutral] λ<sub>max</sub> 222 (); 285 () (EtOH) (Berdy)

#### References:

Jacobson, F. *et al.*, *Ber.*, 1903, **36**, 4093

Martynoff, M., *C. R. Hebd. Seances Acad. Sci.*, 1946, **223**, 747