



**Melting Point:** Mp 109-110°

>>Derivative: 1-*N*-Di-Me

**CAS Registry Number:** 5367-54-4

**Molecular Formula:** C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>

**Molecular Weight:** 181.194

**Accurate Mass:** 181.085127

**Percentage Composition:** C 53.03%; H 6.12%; N 23.19%; O 17.66%

**Physical Description:** Violet-red cryst. (EtOH)

**Melting Point:** Mp 113-114°

>>Derivative: 1-*N*-Di-Me, 4-*N*-Ac

**Synonym(s):** 4-Dimethylamino-3-nitroacetanilide

**Molecular Formula:** C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular Weight:** 223.231

**Accurate Mass:** 223.095692

**Percentage Composition:** C 53.81%; H 5.87%; N 18.82%; O 21.50%

**Physical Description:** Maroon parallelepipeds (H<sub>2</sub>O), orange-yellow needles (C<sub>6</sub>H<sub>6</sub>)

**Melting Point:** Mp 132° (H<sub>2</sub>O). Mp 122-123° (C<sub>6</sub>H<sub>6</sub>)

**Other Data:** Dimorphic

>>Derivative: 1,4-*N*-Di-Me

**CAS Registry Number:** 2784-93-2

**Molecular Formula:** C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>

**Molecular Weight:** 181.194

**Accurate Mass:** 181.085127

**Percentage Composition:** C 53.03%; H 6.12%; N 23.19%; O 17.66%

**Physical Description:** Black blades with metallic lustre

**Melting Point:** Mp 114°

>>Derivative: 1,4-*N*-Di-Me, 4-*N*-Ac

**CAS Registry Number:** 10228-06-5

**Molecular Formula:** C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular Weight:** 223.231

**Accurate Mass:** 223.095692

**Percentage Composition:** C 53.81%; H 5.87%; N 18.82%; O 21.50%

**Physical Description:** Orange needles (EtOH)

**Melting Point:** Mp 154°

>>Derivative: 4-*N*-Di-Me

**Synonym(s):** 4-Amino-*N,N*-dimethyl-3-nitroaniline

**CAS Registry Number:** 16293-12-2

**Molecular Formula:** C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>

**Molecular Weight:** 181.194

**Accurate Mass:** 181.085127

**Percentage Composition:** C 53.03%; H 6.12%; N 23.19%; O 17.66%

**Physical Description:** Red needles

**Melting Point:** Mp 112°

>>Derivative: 4-*N*-Di-Me, 1-*N*-Ac

**Synonym(s):** *p*-Dimethylamino-2-nitroacetanilide

**Physical Description:** Red needles

**Melting Point:** Mp 116°

**References:**