



>>Entry Name: 2-Amino-6-nitrophenol, 9Cl

CAS Registry Number: 603-87-2

**Molecular Formula:** C<sub>6</sub>H<sub>6</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 154.125

**Accurate Mass:** 154.037843

**Percentage Composition:** C 46.76%; H 3.92%; N 18.18%; O 31.14%

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

**Melting Point:** Mp 111-112°

>>Derivative: *N*-Me

**Synonym(s):** 2-(Methylamino)-6-nitrophenol

**Molecular Formula:** C<sub>7</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 168.152

**Accurate Mass:** 168.053493

**Percentage Composition:** C 50.00%; H 4.80%; N 16.66%; O 28.54%

**Physical Description:** Deep-red needles

**Melting Point:** Mp 78°

>>Derivative: Me ether

**Synonym(s):** 2-Methoxy-3-nitroaniline. 2-Methoxy-3-nitrobenzenamine, 9Cl. 3-Nitro-*o*-anisidine, 8Cl. 2-Amino-6-nitroanisole

**CAS Registry Number:** 85-45-0

**Molecular Formula:** C<sub>7</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 168.152

**Accurate Mass:** 168.053493

**Percentage Composition:** C 50.00%; H 4.80%; N 16.66%; O 28.54%

**Physical Description:** Yellow needles (petrol)

**Melting Point:** Mp 67°

>>Derivative: Me ether, *N*-Ac

**Synonym(s):** 2-Methoxy-3-nitroacetanilide

**Molecular Formula:** C<sub>9</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight:** 210.189

**Accurate Mass:** 210.064058

**Percentage Composition:** C 51.43%; H 4.80%; N 13.33%; O 30.45%

**Physical Description:** Pale-yellow prisms (MeOH)

**Melting Point:** Mp 103-104°

>>Derivative: Et ether

**Synonym(s):** 3-Nitro-*o*-phenetidine. 2-Amino-6-nitrophenetole

**Molecular Formula:** C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 182.179

**Accurate Mass:** 182.069143

**Percentage Composition:** C 52.74%; H 5.53%; N 15.38%; O 26.35%

**Physical Description:** Greenish-yellow cryst.

**Melting Point:** Mp 37-37.5°

#### References:

Ingold, C.K. *et al.*, *J.C.S.*, 1926, 1310

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Zinner, H. *et al.*, *Chem. Ber.*, 1959, **92**, 407, (*synth*)

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Ruchkin, V.E. *et al.*, *Dokl. Akad. Nauk SSSR*, 1975, **221**, 103, (*uv*)

Prinz, W. *et al.*, *J. Chem. Res., Miniprint*, 1978, 1347