



>>Entry Name: **2,4-Dinitrobenzoic acid**, 9Cl, 8Cl

**CAS Registry Number:** 610-30-0

Structure by analogy with 2,3-Dinitrobenzoic acid, [FBC63-M](#)

**Molecular Formula:** C<sub>7</sub>H<sub>4</sub>N<sub>2</sub>O<sub>6</sub>

**Molecular Weight:** 212.118

**Accurate Mass:** 212.006938

**Percentage Composition:** C 39.64%; H 1.90%; N 13.21%; O 45.26%

**Use/Importance:** Used in photography

**Melting Point:** Mp 182-183°

**pKa Value:** pK<sub>a</sub> 1.43 (25°, H<sub>2</sub>O)

**Aldrich:** 13795-2

**Fluka:** 41910

**Rare Chemicals Library:** S43081-1

**Sigma:** D4914

>>Derivative: Me ester

**CAS Registry Number:** 18959-17-6

**Molecular Formula:** C<sub>8</sub>H<sub>6</sub>N<sub>2</sub>O<sub>6</sub>

**Molecular Weight:** 226.145

**Accurate Mass:** 226.022588

**Percentage Composition:** C 42.49%; H 2.67%; N 12.39%; O 42.45%

**Melting Point:** Mp 70°

>>Derivative: Chloride

**CAS Registry Number:** 20195-22-6

**Molecular Formula:** C<sub>7</sub>H<sub>3</sub>ClN<sub>2</sub>O<sub>5</sub>

**Molecular Weight:** 230.564

**Accurate Mass:** 229.97305

**Percentage Composition:** C 36.47%; H 1.31%; Cl 15.38%; N 12.15%; O 34.70%

**Melting Point:** Mp 42-46°

>>Derivative: Amide

**CAS Registry Number:** 13296-87-2

**Molecular Formula:** C<sub>7</sub>H<sub>5</sub>N<sub>3</sub>O<sub>5</sub>

**Molecular Weight:** 211.134

**Accurate Mass:** 211.022922

**Percentage Composition:** C 39.82%; H 2.39%; N 19.90%; O 37.89%

**Physical Description:** Greenish needles

**Melting Point:** Mp 203-204°

>>Derivative: Nitrile

**Synonym(s):** 1-Cyano-2,4-dinitrobenzene

**CAS Registry Number:** 4110-33-2

**Molecular Formula:** C<sub>7</sub>H<sub>3</sub>N<sub>3</sub>O<sub>4</sub>

**Molecular Weight:** 193.118

**Accurate Mass:** 193.012357

**Percentage Composition:** C 43.54%; H 1.57%; N 21.76%; O 33.14%

**Physical Description:** Cryst. (EtOH)

**Melting Point:** Mp 104-105°

>>Derivative: Anhydride

**Molecular Formula:** C<sub>14</sub>H<sub>6</sub>N<sub>4</sub>O<sub>11</sub>

**Molecular Weight:** 406.222

**Accurate Mass:** 406.003311

**Percentage Composition:** C 41.39%; H 1.49%; N 13.79%; O 43.32%

**Melting Point:** Mp 160°

**References:**