



>>Entry Name: 3,5-Dihydroxybenzoic acid, 9CI

Synonym(s):  $\alpha$ -Resorcylic acid, 8CI. Resorcinol-5-carboxylic acid

CAS Registry Number: 99-10-5

Related CAS Registry Numbers(s): 41696-97-3

Structure by analogy with 2,3-Dihydroxybenzoic acid, [HFB57-G](#)

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

**Molecular Weight:** 154.122

**Accurate Mass:** 154.02661

**Percentage Composition:** C 54.55%; H 3.92%; O 41.52%

**Biological Source:** Constit. of *Arachis hypogaea* and *Cicer arietinum* seeds. Also present in *Pterocarpus santalinus*

**Use/Importance:** Used as 1% soln. in EtOH as metallochromic indicator in titrimetric detn. of Fe(III). Used as a monomer for dendritic polyesters

**Physical Description:** Cryst. + 1½ H<sub>2</sub>O (H<sub>2</sub>O)

**Melting Point:** Mp 232-233° (anhyd.)

**Solubility:** Sol. H<sub>2</sub>O

**pKa Value:** pK<sub>a</sub> 4.04

**Aldrich:** D11000-0

**Fluka:** 37600

**Sigma:** R1500

>>Derivative: Me ester

**CAS Registry Number:** 2150-44-9

**Molecular Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>4</sub>

**Molecular Weight:** 168.149

**Accurate Mass:** 168.04226

**Percentage Composition:** C 57.14%; H 4.80%; O 38.06%

**Physical Description:** Leaflets

**Melting Point:** Mp 168-170° (163-165°)

**pKa Value:** pK<sub>a1</sub> 8.71; pK<sub>a2</sub> 10.66 (20°)

**Aldrich:** 15960-3

>>Derivative: Et ester

**CAS Registry Number:** 4142-98-7

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

**Molecular Weight:** 182.176

**Accurate Mass:** 182.05791

**Percentage Composition:** C 59.34%; H 5.53%; O 35.13%

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

**Melting Point:** Mp 128-129°

**Rare Chemicals Library:** S53042-5

>>Derivative: Ph ester

**CAS Registry Number:** 133551-50-5

**Molecular Formula:** C<sub>13</sub>H<sub>10</sub>O<sub>4</sub>

**Molecular Weight:** 230.22

**Accurate Mass:** 230.05791

**Percentage Composition:** C 67.82%; H 4.38%; O 27.80%

**Physical Description:** Cryst. (MeOH aq.)

**Melting Point:** Mp 174-176°

>>Derivative: Amide

**CAS Registry Number:** 3147-62-4

**Molecular Formula:** C<sub>7</sub>H<sub>7</sub>NO<sub>3</sub>

**Molecular Weight:** 153.137

**Accurate Mass:** 153.042594

**Percentage Composition:** C 54.90%; H 4.61%; N 9.15%; O 31.34%

**Physical Description:** Tan solid (EtOH)

**Melting Point:** Mp 285-287 dec.°

**Rare Chemicals Library:** S36060-0