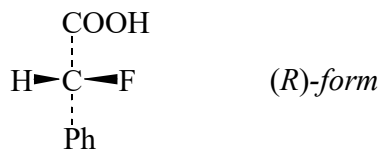




>>Entry Name: Fluorophenylacetic acid

Synonym(s):  $\alpha$ -Fluorobenzeneacetic acid, 9CI



**Molecular Formula:** C<sub>8</sub>H<sub>7</sub>FO<sub>2</sub>

**Molecular Weight:** 154.14

**Accurate Mass:** 154.043008

**Percentage Composition:** C 62.34%; H 4.58%; F 12.33%; O 20.76%

>>Variant: (R)-form

**CAS Registry Number:** 63818-94-0

**Molecular Formula:** C<sub>8</sub>H<sub>7</sub>FO<sub>2</sub>

**Molecular Weight:** 154.14

**Accurate Mass:** 154.043008

**Percentage Composition:** C 62.34%; H 4.58%; F 12.33%; O 20.76%

**Physical Description:** Needles (hexane/Et<sub>2</sub>O)

**Melting Point:** Mp 103-105°

**Optical Rotation:**  $[\alpha]_D^{23}$  -153.5 (c, 1.52 in Me<sub>2</sub>CO)

>>Variant: (S)-form

**CAS Registry Number:** 63818-95-1

**Molecular Formula:** C<sub>8</sub>H<sub>7</sub>FO<sub>2</sub>

**Molecular Weight:** 154.14

**Accurate Mass:** 154.043008

**Percentage Composition:** C 62.34%; H 4.58%; F 12.33%; O 20.76%

**Physical Description:** Cryst.

**Melting Point:** Mp 99-101°

**Optical Rotation:**  $[\alpha]_D^{23}$  +136.5 (c, 1.45 in Me<sub>2</sub>CO)

>>Variant: (±)-form

**CAS Registry Number:** 1578-63-8

**Molecular Formula:** C<sub>8</sub>H<sub>7</sub>FO<sub>2</sub>

**Molecular Weight:** 154.14

**Accurate Mass:** 154.043008

**Percentage Composition:** C 62.34%; H 4.58%; F 12.33%; O 20.76%

**Physical Description:** Cryst. (petrol/C<sub>6</sub>H<sub>6</sub>)

**Melting Point:** Mp 83-85°

**Boiling Point:** Bp<sub>0.1</sub> 65-68° subl.

**Aldrich:** 21952-5

**Sigma:** F6254

>>Derivative: K salt

**CAS Registry Number:** 22692-91-7

**Melting Point:** Mp 218-220°

>>Derivative: Me ester

**CAS Registry Number:** 17841-30-4

**Molecular Formula:** C<sub>9</sub>H<sub>9</sub>FO<sub>2</sub>

**Molecular Weight:** 168.167

**Accurate Mass:** 168.058658

**Percentage Composition:** C 64.28%; H 5.39%; F 11.30%; O 19.03%

**Boiling Point:** Bp<sub>24</sub> 126-131°