



>>Derivative: Benzyl ester

**CAS Registry Number:** 76008-52-1

**Molecular Formula:** C<sub>10</sub>H<sub>7</sub>F<sub>5</sub>O<sub>2</sub>

**Molecular Weight:** 254.156

**Accurate Mass:** 254.03662

**Percentage Composition:** C 47.26%; H 2.78%; F 37.38%; O 12.59%

**Boiling Point:** Bp<sub>21</sub> 80-81°

>>Derivative: Fluoride

**CAS Registry Number:** 422-61-7

**Molecular Formula:** C<sub>3</sub>F<sub>6</sub>O

**Molecular Weight:** 166.023

**Accurate Mass:** 165.985333

**Percentage Composition:** C 21.70%; F 68.66%; O 9.64%

**Physical Description:** Gas

**Boiling Point:** Bp -26.5°

>>Derivative: Chloride

**CAS Registry Number:** 422-59-3

**Molecular Formula:** C<sub>3</sub>ClF<sub>5</sub>O

**Molecular Weight:** 182.477

**Accurate Mass:** 181.955782

**Percentage Composition:** C 19.75%; Cl 19.43%; F 52.06%; O 8.77%

**Boiling Point:** Bp 94°

>>Derivative: Amide

**CAS Registry Number:** 354-76-7

**Molecular Formula:** C<sub>3</sub>H<sub>2</sub>F<sub>5</sub>NO

**Molecular Weight:** 163.047

**Accurate Mass:** 163.005654

**Percentage Composition:** C 22.10%; H 1.24%; F 58.26%; N 8.59%; O 9.81%

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

**Melting Point:** Mp 96°

>>Derivative: Anilide

**CAS Registry Number:** 718-66-1

**Molecular Formula:** C<sub>9</sub>H<sub>6</sub>F<sub>5</sub>NO

**Molecular Weight:** 239.144

**Accurate Mass:** 239.036954

**Percentage Composition:** C 45.20%; H 2.53%; F 39.72%; N 5.86%; O 6.69%

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

**Melting Point:** Mp 98-99°

>>Derivative: Nitrile

**Synonym(s):** Cyanopentafluoroethane. Pentafluoropropionitrile

**CAS Registry Number:** 422-04-8

**Molecular Formula:** C<sub>3</sub>F<sub>5</sub>N

**Molecular Weight:** 145.032

**Accurate Mass:** 144.995089

**Percentage Composition:** C 24.84%; F 65.50%; N 9.66%

**Boiling Point:** Bp -35°

>>Derivative: Anhydride

**CAS Registry Number:** 356-42-3

**Molecular Formula:** C<sub>6</sub>F<sub>10</sub>O<sub>3</sub>

**Molecular Weight:** 310.048

**Accurate Mass:** 309.968775

**Percentage Composition:** C 23.24%; F 61.28%; O 15.48%

**Use/Importance:** Reagent for the prepn. of volatile derivs. for gc and ms

**Physical Description:** Liq.

**Boiling Point:** Bp 71.5-72°

**Density:** d