



>>Derivative: Benzyl ester

CAS Registry Number: 76008-52-1

Molecular Formula: C₁₀H₇F₅O₂

Molecular Weight: 254.156

Accurate Mass: 254.03662

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

Boiling Point: Bp₂₁ 80-81°

>>Derivative: Fluoride

CAS Registry Number: 422-61-7

Molecular Formula: C₃F₆O

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: C₃ClF₅O

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: C₃H₂F₅NO

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: C₉H₆F₅NO

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: C₃F₅N

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: C₆F₁₀O₃

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