



>>Entry Name: Pentadecafluorooctanoic acid, 9CI

Synonym(s): Perfluorooctanoic acid

CAS Registry Number: 335-67-1

Related CAS Registry Numbers(s): 17125-60-9

$\text{F}_3\text{C}(\text{CF}_2)_6\text{COOH}$

Molecular Formula: $\text{C}_8\text{HF}_{15}\text{O}_2$

Molecular Weight: 414.071

Accurate Mass: 413.9737

Percentage Composition: C 23.21%; H 0.24%; F 68.82%; O 7.73%

Use/Importance: Emulsifier, surfactant

Physical Description: Cryst. (CCl_4)

Melting Point: Mp 54.9-55.6°

Hazard & Toxicity: LD₅₀ (rat, ipr) 189 mg/kg

Aldrich: 17146-8

Fluka: 77260

>>Derivative: Na salt

CAS Registry Number: 335-95-5

Use/Importance: Surfactant

Physical Description: Solid

>>Derivative: NH_4 salt

Synonym(s): Fluorad FC 143

CAS Registry Number: 3825-26-1

Use/Importance: Surfactant

Physical Description: Solid

Hazard & Toxicity: Eye and skin irritant. LD₅₀ (rat, orl) 430 mg/kg. Exp. reprod. effects

Fluka: 77262

>>Derivative: Me ester

CAS Registry Number: 376-27-2

Molecular Formula: $\text{C}_9\text{H}_3\text{F}_{15}\text{O}_2$

Molecular Weight: 428.097

Accurate Mass: 427.98935

Percentage Composition: C 25.25%; H 0.71%; F 66.57%; O 7.47%

Physical Description: Liq.

Boiling Point: Bp₈ 158-159°

Density: d_4^{27} 1.68

Aldrich: 40645-7

>>Derivative: Et ester

CAS Registry Number: 3108-24-5

Molecular Formula: $\text{C}_{10}\text{H}_5\text{F}_{15}\text{O}_2$

Molecular Weight: 442.124

Accurate Mass: 442.005

Percentage Composition: C 27.17%; H 1.14%; F 64.46%; O 7.24%

Physical Description: Liq.

Boiling Point: Bp₁₈ 74-76°

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>>Derivative: Fluoride

CAS Registry Number: 335-66-0

Molecular Formula: $\text{C}_8\text{F}_{16}\text{O}$

Molecular Weight: 416.062

Accurate Mass: 415.969363

Percentage Composition: C 23.09%; F 73.06%; O 3.85%

Source/Synthesis: Source of Pentadecafluorooctanoic acid [JJP14-H](#)

Physical Description: Liq.