



>>Entry Name: Tridecafluoroheptanoic acid

Synonym(s): Perfluoroheptanoic acid

CAS Registry Number: 375-85-9

Related CAS Registry Numbers(s): 21049-36-5 52447-22-0

Chemical Formula: $\text{F}_3\text{C}(\text{CF}_2)_5\text{COOH}$

Molecular Formula: $\text{C}_7\text{HF}_{13}\text{O}_2$

Molecular Weight: 364.063

Accurate Mass: 363.976894

Percentage Composition: C 23.09%; H 0.28%; F 67.84%; O 8.79%

Physical Description: Cryst. (CCl_4)

Melting Point: Mp 54°

Boiling Point: Bp 175°. Bp₄₀ 105°

Aldrich: 34204-1

Fluka: 77271

>>Derivative: Na salt

CAS Registry Number: 20109-59-5

Physical Description: Cryst. (H_2O)

>>Derivative: Me ester

CAS Registry Number: 14312-89-1

Molecular Formula: $\text{C}_8\text{H}_3\text{F}_{13}\text{O}_2$

Molecular Weight: 378.09

Accurate Mass: 377.992544

Percentage Composition: C 25.41%; H 0.80%; F 65.32%; O 8.46%

Physical Description: Liq.

Boiling Point: Bp₃ 60.65°

>>Derivative: Et ester

CAS Registry Number: 41430-70-0

Molecular Formula: $\text{C}_9\text{H}_5\text{F}_{13}\text{O}_2$

Molecular Weight: 392.117

Accurate Mass: 392.008194

Percentage Composition: C 27.57%; H 1.29%; F 62.99%; O 8.16%

Boiling Point: Bp₂₀ 87°

>>Derivative: Amide

CAS Registry Number: 2358-22-7

Molecular Formula: $\text{C}_7\text{H}_2\text{F}_{13}\text{NO}$

Molecular Weight: 363.078

Accurate Mass: 362.992878

Percentage Composition: C 23.16%; H 0.56%; F 68.02%; N 3.86%; O 4.41%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 135°

>>Derivative: Nitrile

Synonym(s): Tridecafluoroheptanenitrile. Perfluoroheptanenitrile. 1-Cyanotridecafluorohexane

CAS Registry Number: 62038-08-8

Molecular Formula: $\text{C}_7\text{F}_{13}\text{N}$

Molecular Weight: 345.063

Accurate Mass: 344.982313

Percentage Composition: C 24.37%; F 71.58%; N 4.06%

Boiling Point: Bp 80°

References: