



**>>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

**F<sub>3</sub>C(CF<sub>2</sub>)<sub>5</sub>COOH**

**Molecular Formula:** C<sub>7</sub>HF<sub>13</sub>O<sub>2</sub>

**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<sub>4</sub>)

**Melting Point:** Mp 54°

**Boiling Point:** Bp 175°. Bp<sub>40</sub> 105°

**Aldrich:** 34204-1

**Fluka:** 77271

**>>Derivative:** Na salt

**CAS Registry Number:** 20109-59-5

**Physical Description:** Cryst. (H<sub>2</sub>O)

**>>Derivative:** Me ester

**CAS Registry Number:** 14312-89-1

**Molecular Formula:** C<sub>8</sub>H<sub>3</sub>F<sub>13</sub>O<sub>2</sub>

**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:** Bp<sub>3</sub> 60.65°

**>>Derivative:** Et ester

**CAS Registry Number:** 41430-70-0

**Molecular Formula:** C<sub>9</sub>H<sub>5</sub>F<sub>13</sub>O<sub>2</sub>

**Molecular Weight:** 392.117

**Accurate Mass:** 392.008194

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

**Boiling Point:** Bp<sub>20</sub> 87°

**>>Derivative:** Amide

**CAS Registry Number:** 2358-22-7

**Molecular Formula:** C<sub>7</sub>H<sub>2</sub>F<sub>13</sub>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:** C<sub>7</sub>F<sub>13</sub>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:**