>>**Entry Name: Difluoropropanedioic acid,** 9Cl
**Synonym(s):** Difluoromalonic acid

**CAS Registry Number:** 1514-85-8
$F_2C(COOH)_2$

**Molecular Formula:** $C_3H_2F_2O_4$
**Molecular Weight:** 140.043
**Accurate Mass:** 139.992116
**Percentage Composition:** C 25.73%; H 1.44%; F 27.13%; O 45.70%
**Physical Description:** Cryst. ($C_6H_6$)
**Melting Point:** Mp 118°

>>**Derivative:** Di-Me ester

**CAS Registry Number:** 379-95-3
**Molecular Formula:** $C_5H_6F_2O_4$
**Molecular Weight:** 168.097
**Accurate Mass:** 168.023416
**Percentage Composition:** C 35.73%; H 3.60%; F 22.60%; O 38.07%
**Physical Description:** Liq.
**Boiling Point:** Bp 167-169°. $Bp_{12}$ 60-62°

>>**Derivative:** Di-Et ester

**CAS Registry Number:** 680-65-9
**Molecular Formula:** $C_7H_{10}F_2O_4$
**Molecular Weight:** 196.15
**Accurate Mass:** 196.054716
**Percentage Composition:** C 42.86%; H 5.14%; F 19.37%; O 32.63%
**Physical Description:** Liq.
**Boiling Point:** Bp 184°. $Bp_1$ 53°

>>**Derivative:** Difluoride

**CAS Registry Number:** 5930-67-6
**Molecular Formula:** $C_3F_4O_2$
**Molecular Weight:** 144.026
**Accurate Mass:** 143.983442
**Percentage Composition:** C 25.02%; F 52.76%; O 22.22%
**Physical Description:** Gas
**Boiling Point:** Bp –9°

>>**Derivative:** Dichloride

**CAS Registry Number:** 425-98-9
**Molecular Formula:** $C_3Cl_2F_2O_2$
**Molecular Weight:** 176.935
**Accurate Mass:** 175.92434
**Percentage Composition:** C 20.37%; Cl 40.07%; F 21.48%; O 18.09%
**Physical Description:** Liq.
**Boiling Point:** Bp 68°

>>**Derivative:** Diamide

**CAS Registry Number:** 425-99-0
**Molecular Formula:** $C_3H_4F_2N_2O_2$
**Molecular Weight:** 138.074
**Accurate Mass:** 138.024084
**Percentage Composition:** C 26.10%; H 2.92%; F 27.52%; N 20.29%; O 23.18%
**Physical Description:** Cryst. ($Et_2O$)
**Melting Point:** Mp 207°

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