



>>Entry Name: Dibromofluoroacetic acid, 9CI

Br<sub>2</sub>CFCOOH

**Molecular Formula:** C<sub>2</sub>HBr<sub>2</sub>FO<sub>2</sub>

**Molecular Weight:** 235.835

**Accurate Mass:** 233.87273

**Percentage Composition:** C 10.19%; H 0.43%; Br 67.76%; F 8.06%; O 13.57%

**Physical Description:** Hygroscopic cryst.

**Melting Point:** Mp 40-41° (26.5°)

**Boiling Point:** Bp 198°. Bp<sub>60</sub> 130°

>>Derivative: Me ester

**CAS Registry Number:** 70938-25-9

**Molecular Formula:** C<sub>3</sub>H<sub>3</sub>Br<sub>2</sub>FO<sub>2</sub>

**Molecular Weight:** 249.862

**Accurate Mass:** 247.88838

**Percentage Composition:** C 14.42%; H 1.21%; Br 63.96%; F 7.60%; O 12.81%

**Physical Description:** Liq.

**Boiling Point:** Bp<sub>71</sub> 83°

>>Derivative: Et ester

**CAS Registry Number:** 565-53-7

**Molecular Formula:** C<sub>4</sub>H<sub>5</sub>Br<sub>2</sub>FO<sub>2</sub>

**Molecular Weight:** 263.889

**Accurate Mass:** 261.90403

**Percentage Composition:** C 18.21%; H 1.91%; Br 60.56%; F 7.20%; O 12.13%

**Physical Description:** Liq.

**Boiling Point:** Bp 171-173°. Bp<sub>10</sub> 66-67°

**Density:** d<sub>4</sub><sup>25</sup> 1.886

**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4630

#### References:

Swarts, F., *Ber.*, 1918, **51**, 672, (*synth*)

Cohn, H. *et al.*, *Isr. J. Chem.*, 1965, **2**, 355, (*synth*)

Campbell, R.W. *et al.*, *Monatsh. Chem.*, 1979, **110**, 453, (*synth*, *Me ester*)