>>**Entry Name: 2,2,2-Trifluoroacetaldehyde,** 9CI, 8CI
Synonym(s): 2,2,2-Trifluoroethanal. Fluoral

CAS Registry Number: 75-90-1
F_3CCHO

Molecular Formula: C_2HF_3O
Molecular Weight: 98.024
Accurate Mass: 97.997949
Percentage Composition: C 24.51%; H 1.03%; F 58.14%; O 16.32%
Boiling Point: Bp_{748} –18.8°
pKa Value: pK_{a1} 10.19 (25°)

>>**Derivative:** Oxime

CAS Registry Number: 819-03-4
Molecular Formula: $C_2H_2F_3NO$
Molecular Weight: 113.039
Accurate Mass: 113.008848
Percentage Composition: C 21.25%; H 1.78%; F 50.42%; N 12.39%; O 14.15%
Physical Description: Liq.
Boiling Point: Bp 78-79°

>>**Derivative:** Phenylhydrazone

CAS Registry Number: 81963-42-0
Physical Description: Needles (petrol)
Melting Point: Mp 56-57°. Mp 69-73°

>>**Derivative:** 2,4-Dinitrophenylhydrazone

CAS Registry Number: 323-01-3
Physical Description: Orange-yellow cryst.
Melting Point: Mp 150 dec.°

>>**Derivative:** Covalent hydrate
Synonym(s): 2,2,2-Trifluoro-1,1-ethanediol, 9CI. Fluoral hydrate

CAS Registry Number: 421-53-4
Molecular Formula: $C_2H_3F_3O_2$
Molecular Weight: 116.04
Accurate Mass: 116.008514
Percentage Composition: C 20.70%; H 2.61%; F 49.12%; O 27.58%
Boiling Point: Bp 105°

Rare Chemicals Library: S56156-8

>>**Derivative:** Covalent hydrate, di-Ac
Synonym(s): 2,2-Diacetoxy-1,1,1-trifluoroethane

Molecular Formula: $C_6H_7F_3O_4$
Molecular Weight: 200.114
Accurate Mass: 200.029644
Percentage Composition: C 36.01%; H 3.53%; F 28.48%; O 31.98%
Boiling Point: Bp_{743} 146-146.5°

>>**Derivative:** Covalent hydrate, mono-Me ether (Methyl hemiacetal)
Synonym(s): 2,2,2-Trifluoro-1-methoxyethanol, 9CI

CAS Registry Number: 431-46-9
Molecular Formula: $C_3H_5F_3O_2$
Molecular Weight: 130.067
Accurate Mass: 130.024164
Percentage Composition: C 27.70%; H 3.87%; F 43.82%; O 24.60%
Boiling Point: Bp 96-96.5°