



>>Entry Name: 2,2,2-Trifluoroacetaldehyde, 9CI, 8CI

Synonym(s): 2,2,2-Trifluoroethanal. Fluoral

CAS Registry Number: 75-90-1

F₃CCHO

Molecular Formula: C₂HF₃O

Molecular Weight: 98.024

Accurate Mass: 97.997949

Percentage Composition: C 24.51%; H 1.03%; F 58.14%; O 16.32%

Boiling Point: Bp₇₄₈ -18.8°

pKa Value: pK_{a1} 10.19 (25°)

>>Derivative: Oxime

CAS Registry Number: 819-03-4

Molecular Formula: C₂H₂F₃NO

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: C₂H₃F₃O₂

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: C₆H₇F₃O₄

Molecular Weight: 200.114

Accurate Mass: 200.029644

Percentage Composition: C 36.01%; H 3.53%; F 28.48%; O 31.98%

Boiling Point: Bp₇₄₃ 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: C₃H₅F₃O₂

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°