>>**Entry Name: 1-Chloro-2-propanone,** 9Cl
Synonym(s): Chloroacetone. Monochloroacetone

CAS Registry Number: 78-95-5
H_3CCOCH_2Cl

Molecular Formula: C_3H_5ClO
Molecular Weight: 92.525
Accurate Mass: 92.002892
Percentage Composition: C 38.94%; H 5.45%; Cl 38.32%; O 17.29%
Physical Description: Liq.
Boiling Point: Bp 119°
Solubility: Sol. H_2O
Density: d^{16} 1.162
pKa Value: pK_a 16.5
Refractive Index: n_D^{25} 1.4300
Hazard & Toxicity: Toxic by skin contact. May polymerise explosively on storage. Severe eye and respiratory tract irritant. Lachrymator and vesicant. LD_{50} (rat, orl) 100 mg/kg. LD_{50} (rbt, skn) 141 mg/kg. LC_{50} (rat, ihl) 262 ppm (1h exposure)

Aldrich: 16747-9
Fluka: 22820

>>**Derivative:** Oxime

CAS Registry Number: 671-59-0
Molecular Formula: C_3H_6ClNO
Molecular Weight: 107.539
Accurate Mass: 107.013791
Percentage Composition: C 33.51%; H 5.62%; Cl 32.97%; N 13.02%; O 14.88%
Physical Description: Liq.
Boiling Point: Bp_{730} 171°. Bp_9 71°

>>**Derivative:** Semicarbazone

CAS Registry Number: 53646-01-8
Melting Point: Mp 150°
Other Data: Unstable, dec. by boiling H_2O or EtOH

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

CAS Registry Number: 71094-29-6
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 124-125.5°

>>**Derivative:** Di-Me acetal
Synonym(s): 1-Chloro-2,2-dimethoxypropane, 9Cl

CAS Registry Number: 32730-70-4
Molecular Formula: $C_5H_{11}ClO_2$
Molecular Weight: 138.593
Accurate Mass: 138.044757
Percentage Composition: C 43.33%; H 8.00%; Cl 25.58%; O 23.09%
Physical Description: Liq.
Boiling Point: Bp 132-134°. Bp_{15} 50°

>>**Derivative:** Di-Et acetal
Synonym(s): 1-Chloro-2,2-diethoxypropane, 9Cl

CAS Registry Number: 63594-18-3
Molecular Formula: $C_7H_{15}ClO_2$
Molecular Weight: 166.647
Accurate Mass: 166.076057
Percentage Composition: C 50.45%; H 9.07%; Cl 21.27%; O 19.20%
Physical Description: Liq.
Boiling Point: Bp 162-163°. Bp_{12} 57°