>>**Entry Name: 1-Hydroxy-2-propanone,** 9CI
ENTRY UNDER REVIEW
Synonym(s): Hydroxyacetone. Acetol. Acetylcarbinol. Acetonyl alcohol. Pyruvic alcohol. Hydroxymethyl methyl ketone

CAS Registry Number: 116-09-6
Related CAS Registry Numbers(s): 134252-15-6 134252-16-7

H_3CCOCH_2OH

Molecular Formula: $C_3H_6O_2$
Molecular Weight: 74.079
Accurate Mass: 74.03678
Percentage Composition: C 48.64%; H 8.16%; O 43.20%
Biological Source: Present in beer, tobacco and honey
Melting Point: Fp –17 approx.°
Boiling Point: Bp 145-146°. Bp_{150} 96-97°
Solubility: Sol. H_2O
Density: d_{20}^{20} 1.082
Refractive Index: n_D^{20} 1.4295
Other Data: Unstable. Stabilised by MeOH
Hazard & Toxicity: Exp. causes hypersensitivity reactions. Asthma, eye and nose irritation, and urticaria may result. LD_{50} (rat, orl) 2200 mg/kg

Aldrich: 13818-5
Fluka: 54142
Rare Chemicals Library: S43998-3
Sigma: H0272

>>**Derivative:** Oxime

CAS Registry Number: 68113-52-0
Molecular Formula: $C_3H_7NO_2$
Molecular Weight: 89.094
Accurate Mass: 89.047679
Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%
Melting Point: Mp 78° (71°)
Boiling Point: Bp_3 110°

>>**Derivative:** Dimethylhydrazone

CAS Registry Number: 80569-03-5
Molecular Formula: $C_5H_{12}N_2O$
Molecular Weight: 116.163
Accurate Mass: 116.094963
Percentage Composition: C 51.70%; H 10.41%; N 24.12%; O 13.77%
Physical Description: Oil
Boiling Point: $Bp_{0.01}$ 100-105°

>>**Derivative:** Phenylhydrazone

CAS Registry Number: 69456-96-8
Melting Point: Mp 103°

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

CAS Registry Number: 96481-90-2
Physical Description: Orange cryst. (EtOH)
Melting Point: Mp 137 dec.° (127.5-129.5°)

>>**Derivative:** Semicarbazone

CAS Registry Number: 21178-87-0
Melting Point: Mp 196°