>>**Entry Name: 4-Oxobutanoic acid,** 9CI
Synonym(s): Succinaldehydic acid, 8CI. Succinic semialdehyde. 3-Formylpropionic acid. γ-Oxobutanoic acid

CAS Registry Number: 692-29-5

$OHCCH_2CH_2COOH$

Molecular Formula: $C_4H_6O_3$
Molecular Weight: 102.09
Accurate Mass: 102.031695
Percentage Composition: C 47.06%; H 5.92%; O 47.02%
Biological Source: Found in *Proteus vulgaris*, and in mouse brains
Use/Importance: Has anaesthetic props.
Physical Description: Oil with rancid odour
Boiling Point: Bp_{14} 134-136°
Solubility: Sol. H_2O, EtOH, Et_2O, C_6H_6
Other Data: Steam-volatile
Hazard & Toxicity: LD_{50} (mus, ipr) 1900 mg/kg

Aldrich: 28718-0
Fluka: 14075
Sigma: S1505

>>**Derivative:** Trimer
Synonym(s): 1,3,5-Trioxane-2,4,6-tripropanoic acid. 1,3,5-Tris-(β-carboxyethyl)-*s*-trioxane

CAS Registry Number: 26817-25-4
Molecular Formula: $C_{12}H_{18}O_9$
Molecular Weight: 306.269
Accurate Mass: 306.095085
Percentage Composition: C 47.06%; H 5.92%; O 47.02%
Physical Description: Prisms
Melting Point: Mp 147°
Boiling Point: Bp_{14} 134-136°
Solubility: Sl. sol. Et_2O, EtOAc, aq. Na_2CO_3
Other Data: On dist. → monomer

>>**Derivative:** Oxime

Molecular Formula: $C_4H_7NO_3$
Molecular Weight: 117.104
Accurate Mass: 117.042594
Percentage Composition: C 41.03%; H 6.02%; N 11.96%; O 40.99%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 102-103° (155)

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

CAS Registry Number: 4093-65-6
Physical Description: Yellow cryst.
Melting Point: Mp 201°

>>**Derivative:** Semicarbazone

Physical Description: Prisms or needles (H_2O)
Melting Point: Mp 190-191 dec.°

>>**Derivative:** Me ester

CAS Registry Number: 13865-19-5
Molecular Formula: $C_5H_8O_3$
Molecular Weight: 116.116
Accurate Mass: 116.047345
Percentage Composition: C 51.72%; H 6.94%; O 41.34%
Physical Description: Oil
Boiling Point: Bp_{15} 69-71°