



CAS Registry Number: 6362-61-4
Molecular Formula: C₁₅H₁₃NO₂
Molecular Weight: 239.273
Accurate Mass: 239.094629
Percentage Composition: C 75.30%; H 5.48%; N 5.85%; O 13.37%
Melting Point: Mp 127-129°

>>**Derivative:** Nitrile
Synonym(s): Phenacetyl cyanide

CAS Registry Number: 33472-02-5
Molecular Formula: C₉H₇NO
Molecular Weight: 145.16
Accurate Mass: 145.052764
Percentage Composition: C 74.47%; H 4.86%; N 9.65%; O 11.02%
Boiling Point: Bp₃ 100-120°

>>**Variant:** Oxo-form

CAS Registry Number: 156-06-9
Molecular Formula: C₉H₈O₃
Molecular Weight: 164.16
Accurate Mass: 164.047345
Percentage Composition: C 65.85%; H 4.91%; O 29.24%
Aldrich: 28695-8
Fluka: 78190
Sigma: P8126

>>**Derivative:** Oxime
Synonym(s): α-(Hydroxyimino)benzenepropanoic acid, 9CI

CAS Registry Number: 3682-17-5

Molecular Formula: C₉H₉NO₃
Molecular Weight: 179.175
Accurate Mass: 179.058244
Percentage Composition: C 60.33%; H 5.06%; N 7.82%; O 26.79%
Biological Source: Isol. from the sponge *Psammaphysilla purpurea*
Use/Importance: Used as a 3% soln. in EtOH for gravimetric detn. of Cu; pptn. of heavy metals
Physical Description: Needles (EtOH aq. or H₂O)
Melting Point: Mp 159 dec.°

>>**Derivative:** Semicarbazone

Melting Point: Mp 180 dec.°

>>**Derivative:** 4-Nitrophenylhydrazone

Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 187-188 dec.°

>>**Derivative:** 2-Quinolylhydrazone

>>**Derivative:** Et ester, oxime

Molecular Formula: C₁₁H₁₃NO₃
Molecular Weight: 207.229
Accurate Mass: 207.089544
Percentage Composition: C 63.76%; H 6.32%; N 6.76%; O 23.16%
Physical Description: Prisms or needles (petrol)
Melting Point: Mp 57-58°

>>**Derivative:** Et ester, phenylhydrazone

Melting Point: Mp 89°