



Accurate Mass: 164.058578
Percentage Composition: C 58.53%; H 4.91%; N 17.06%; O 19.49%
Melting Point: Mp 168°. Mp 180° (2 forms known)

>>**Derivative:** 2-Hydrazone

CAS Registry Number: 20292-75-5
Molecular Formula: C₈H₈N₂O
Molecular Weight: 148.164
Accurate Mass: 148.063663
Percentage Composition: C 64.85%; H 5.44%; N 18.91%; O 10.80%
Physical Description: Needles (C₆H₆)
Melting Point: Mp 120-121°

>>**Derivative:** Bisphenylhydrazone
Synonym(s): Phenylsazone

CAS Registry Number: 33876-74-3
Physical Description: Yellow needles or leaflets (EtOH)
Melting Point: Mp 152°

>>**Derivative:** Bis-2,4-dinitrophenylhydrazone

CAS Registry Number: 4881-22-5
Melting Point: Mp 295-297.5°

>>**Derivative:** Mono(2-pyridinyl)hydrazone

CAS Registry Number: 111313-19-0

Molecular Formula: C₁₃H₁₁N₃O
Molecular Weight: 225.249
Accurate Mass: 225.090212
Percentage Composition: C 69.32%; H 4.92%; N 18.65%; O 7.10%
Use/Importance: Used as 0.1% EtOH soln. for photometric detn. of Zn ($\lambda_{\max}$ 465 nm, ϵ 71000, pH 7.2-8.5, 40% EtOH)
Physical Description: Cryst.
Solubility: Sol. EtOH

>>**Derivative:** 2-Di-Me acetal
Synonym(s): 2,2-Dimethoxy-1-phenylethanone. Benzoyldimethoxymethane

CAS Registry Number: 6956-56-5
Molecular Formula: C₁₀H₁₂O₃
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%
Boiling Point: Bp 247-248°. Bp₁₆ 133-134°

>>**Derivative:** 2-Di-Et acetal
Synonym(s): 2,2-Diethoxy-1-phenylethanone. Benzoyldiethoxymethane

CAS Registry Number: 6175-45-7
Molecular Formula: C₁₂H₁₆O₃
Molecular Weight: 208.257
Accurate Mass: 208.109945
Percentage Composition: C 69.21%; H 7.74%; O 23.05%
Boiling Point: Bp₁₅ 110°

Aldrich: 22710-2
Fluka: 31604
Sigma: D0665

References: