



CAS Registry Number: 120-46-7

Type of Compound Code(s): PS8300 PS7700 PA4850 PA0600

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

General Statement: Dioxo-, (*E*)-enol and (*Z*)-enol forms all known

Use/Importance: Used in photometric detn. of U ($\lambda_{\max}$ 395 nm, ϵ 20000) and in extraction and separation of Cd

Aldrich: D3345-4

Fluka: 33570

Sigma: D2891

>>**Variant:** Dioxo-form

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Physical Description: Plates

Melting Point: Mp 81°

>>**Derivative:** Monoxime

CAS Registry Number: 5741-75-3

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 165°

>>**Derivative:** Dioxime

Synonym(s): Isonitrosodibenzoylmethane

CAS Registry Number: 66917-88-2

Type of Compound Code(s): PS8300 PS7700 PM6850 PA3700 PA3150

Molecular Formula: C₁₅H₁₄N₂O₂

Molecular Weight: 254.288

Accurate Mass: 254.105528

Percentage Composition: C 70.85%; H 5.55%; N 11.02%; O 12.58%

Use/Importance: Used as a 0.5-0.15% soln. in EtOH for extraction-photometric detn. of Pd(*II*) ($\lambda_{\max}$ 420 nm, ϵ 14900), Ru(*III*)

Physical Description: Cryst.

Solubility: Sol. EtOH, Et₂O, CHCl₃

>>**Derivative:** Monosemicarbazone

Melting Point: Mp 205°

>>**Variant:** (*E*)-Enol-form

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 77.5-79°

Boiling Point: Bp₁₈ 210-221°. Bp₃ 165-170°