



Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Use/Importance: Used as a 0.025% soln. in MeOH for extraction-photometric detn. of Ni, Fe(II) ($\lambda_{\max}$ 559 nm, ϵ 18000)

Physical Description: Leaflets (C₆H₆)

Melting Point: Mp 235-237°. Mp 238 dec.°

Solubility: Sol. EtOH, C₆H₆, Me₂O, Et₂O; insol. H₂O

pKa Value: pK_{a1} 10.3; pK_{a2} 11.9 (20°)

>> **Derivative:** (E,Z)-Dioxime

Synonym(s): *amphi*-Dioxime. γ -Dioxime

Molecular Formula: C₁₄H₁₂N₂O₂

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Physical Description: Cryst. + EtOH (EtOH)

Melting Point: Mp 164-165°

Other Data: Forms (Z,Z)-dioxime at Mp

>> **Derivative:** (Z,Z)-Dioxime

Synonym(s): *syn*-Dioxime. β -Dioxime

CAS Registry Number: 572-45-2

Molecular Formula: C₁₄H₁₂N₂O₂

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Melting Point: Mp 207 dec.°

>> **Derivative:** Monosemicarbazone

Melting Point: Mp 174-175 dec.° (rapid heat)

>> **Derivative:** Disemicarbazone

Physical Description: Leaflets

Melting Point: Mp 243-244 dec.°

>> **Derivative:** Monohydrazone

CAS Registry Number: 5344-88-7

Molecular Formula: C₁₄H₁₂N₂O

Molecular Weight: 224.262

Accurate Mass: 224.094963

Percentage Composition: C 74.98%; H 5.39%; N 12.49%; O 7.13%

Physical Description: Cryst.

Melting Point: Mp 151°

Aldrich: B522-4

>> **Derivative:** Dihydrazone

CAS Registry Number: 4702-78-7

Molecular Formula: C₁₄H₁₄N₄

Molecular Weight: 238.291

Accurate Mass: 238.121846

Percentage Composition: C 70.57%; H 5.92%; N 23.51%

Physical Description: Needles (EtOH)

Melting Point: Mp 134°

Rare Chemicals Library: S43506-6