



>>Entry Name: Acetamidoxime, 8Cl

Synonym(s): *N*-Hydroxyethanimidamide, 9Cl

CAS Registry Number: 22059-22-9

$\text{H}_3\text{CC}(\text{NH}_2)=\text{NOH}$

Molecular Formula: $\text{C}_2\text{H}_6\text{N}_2\text{O}$

Molecular Weight: 74.082

Accurate Mass: 74.048013

Percentage Composition: C 32.43%; H 8.16%; N 37.81%; O 21.60%

Use/Importance: Used in photometric detn. of Ni

Physical Description: Cryst.

Melting Point: Mp 140°

Solubility: Sol. EtOH, H_2O , dioxan

Other Data: Hygroscopic

Hazard & Toxicity: LD₅₀ (rat, scu) 600 mg/kg

>>Derivative: Hydrochloride

CAS Registry Number: 5426-04-0

Physical Description: Cryst.

Melting Point: Mp 140-142°

>>Derivative: *O*-Formyl

Molecular Formula: $\text{C}_3\text{H}_6\text{N}_2\text{O}_2$

Molecular Weight: 102.093

Accurate Mass: 102.042928

Percentage Composition: C 35.29%; H 5.92%; N 27.44%; O 31.34%

Physical Description: Cryst. (hexane)

Melting Point: Mp 29°

>>Derivative: *O*-Ac

Molecular Formula: $\text{C}_4\text{H}_8\text{N}_2\text{O}_2$

Molecular Weight: 116.119

Accurate Mass: 116.058578

Percentage Composition: C 41.37%; H 6.94%; N 24.12%; O 27.56%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 96°

>>Derivative: *O*-Benzyl

Molecular Formula: $\text{C}_9\text{H}_{12}\text{N}_2\text{O}$

Molecular Weight: 164.207

Accurate Mass: 164.094963

Percentage Composition: C 65.83%; H 7.37%; N 17.06%; O 9.74%

Physical Description: Pale-yellow oil

Boiling Point: Bp 200°

>>Derivative: *O*-Benzyl; hydrochloride

Physical Description: Cryst.

Melting Point: Mp 163°

>>Derivative: *N*-Ph

Synonym(s): *N*-Hydroxy-*N'*-phenylethanimidamide, 9Cl. Acetanilidoxime

CAS Registry Number: 5661-30-3

Molecular Formula: $\text{C}_8\text{H}_{10}\text{N}_2\text{O}$

Molecular Weight: 150.18

Accurate Mass: 150.079313

Percentage Composition: C 63.98%; H 6.71%; N 18.65%; O 10.65%

Physical Description: Large brown-yellow plates

Melting Point: Mp 121°

References: