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>>Entry Name: Diaminoglyoxime

Synonym(s): *N,N'*-Dihydroxyethanediimidamide, 9CI. Niccolox. Oxamidedioxime. Oxamidoxime

CAS Registry Number: 2580-79-2

$\text{HON}=\text{C}(\text{NH}_2)\text{C}(\text{NH}_2)=\text{NOH}$

Molecular Formula:  $\text{C}_2\text{H}_6\text{N}_4\text{O}_2$

Molecular Weight: 118.095

Accurate Mass: 118.049076

Percentage Composition: C 20.34%; H 5.12%; N 47.44%; O 27.10%

Use/Importance: Used as 0.1*M* aq. soln. for gravimetric and extraction-photometric detn. of Ni ( $\lambda_{\text{max}}$  347 nm,  $\epsilon$  13000,  $\text{CHCl}_3$ ), Co, Cu

Physical Description: Needles ( $\text{H}_2\text{O}$ )

Melting Point: Mp 202-203°

Solubility: Sol.  $\text{H}_2\text{O}$ , EtOH

References:

Gunasekaran, A. *et al.*, *J. Het. Chem.*, 1995, **32**, 1405, (*synth*)

Zelenin, A.K. *et al.*, *J. Het. Chem.*, 1997, **34**, 1057, (*synth*)