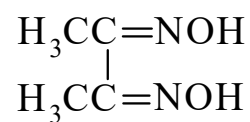




>>Entry Name: Dimethylglyoxime

Synonym(s): 2,3-Butanedione dioxime. 2,3-Bis(hydroxyimino)butane. Biacetyl dioxime. Diethyl dioxime. Chugaev's reagent. DMG. H₂Dm



CAS Registry Number: 95-45-4

Related CAS Registry Numbers(s): 75006-64-3

Type of Compound Code(s): PA2400 PS8300 PA5010 PS7700 PM6850

Molecular Formula: C₄H₈N₂O₂

Molecular Weight: 116.119

Accurate Mass: 116.058578

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

Use/Importance: Used in detn. of Ni, Pd; gravimetric detn. of Ni (red pptn.), Pd (yellow), photometric detn. of Ni (λ_{max} 445 nm, ϵ 15000), Pd, Co, Fe, Cu, Re; in separation of Ni, Pd by extraction (CHCl₃) or pptn. as M(HDm)₂

Physical Description: Triclinic cryst. (EtOH aq.)

Melting Point: Mp 238-240°

Solubility: Sol. EtOH, Me₂CO, Et₂O, alk. soln.; v. spar. sol. H₂O, CHCl₃

Aldrich: 16257-4

Fluka: 40390

Sigma: D2783

>>Derivative: O,O'-Di-Ac

CAS Registry Number: 19800-34-1

Molecular Formula: C₈H₁₂N₂O₄

Molecular Weight: 200.194

Accurate Mass: 200.079708

Percentage Composition: C 48.00%; H 6.04%; N 13.99%; O 31.97%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 112.5-113.5°

>>Derivative: O,O'-Dibenzoyl

CAS Registry Number: 18128-12-6

Molecular Formula: C₁₈H₁₆N₂O₄

Molecular Weight: 324.335

Accurate Mass: 324.111008

Percentage Composition: C 66.66%; H 4.97%; N 8.64%; O 19.73%

Physical Description: Needles

Melting Point: Mp 225°

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