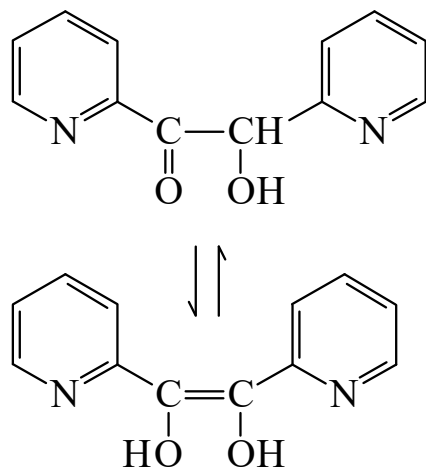




>>Entry Name: Pyridoin

Synonym(s): 2-Hydroxy-1,2-di-2-pyridinyloethanone, 9Cl. Hydroxy-2-pyridylmethyl 2-pyridyl ketone, 8Cl. α -Hydroxy- β -oxodipyridylethane. Di-2-pyridyl-1,2-ethenediol



CAS Registry Number: 1141-06-6

Molecular Formula: C₁₂H₁₀N₂O₂

Molecular Weight: 214.223

Accurate Mass: 214.074228

Percentage Composition: C 67.28%; H 4.70%; N 13.08%; O 14.94%

Use/Importance: Used as a 1-2% soln. in hot EtOH or glac. AcOH for gravimetric detn. of Mo, W

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 161°

Solubility: Spar. sol. cold EtOH; sol. CHCl₃, C₆H₆, Me₂CO; insol. H₂O

Other Data: Red col. in dil. AcOH. Reduces Fehling's soln.

Aldrich: P6540-1

>>Variant: Oxo-form

Molecular Formula: C₁₂H₁₀N₂O₂

Molecular Weight: 214.223

Accurate Mass: 214.074228

Percentage Composition: C 67.28%; H 4.70%; N 13.08%; O 14.94%

>>Derivative: Phenylhydrazone

Physical Description: Cryst. (2-methyl-2-propanol)

>>Variant: Diol-form

Molecular Formula: C₁₂H₁₀N₂O₂

Molecular Weight: 214.223

Accurate Mass: 214.074228

Percentage Composition: C 67.28%; H 4.70%; N 13.08%; O 14.94%

>>Derivative: Di-Ac

Molecular Formula: C₁₆H₁₄N₂O₄

Molecular Weight: 298.298

Accurate Mass: 298.095358

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Physical Description: Two forms known, doubtless (*E*) and (*Z*)

Melting Point: Mp 186°. Mp 225.5°

References:

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