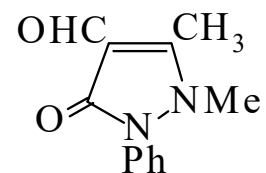




>>Entry Name: **2,3-Dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazole-4-carboxaldehyde**, 9CI

Synonym(s): Antipyrinaldehyde, 8CI. 4-Formyl-2,3-dimethyl-1-phenyl-5-pyrazolone. 4-Formylantipyrine. Antipyrine-4-carboxaldehyde. 2,3-Dimethyl-5-oxo-1-phenyl-3-pyrazolone-4-carboxaldehyde



CAS Registry Number: 950-81-2

Molecular Formula: C₁₂H₁₂N₂O₂

Molecular Weight: 216.239

Accurate Mass: 216.089878

Percentage Composition: C 66.65%; H 5.59%; N 12.95%; O 14.80%

Physical Description: Yellow needles (H₂O)

Solubility: Sol. CHCl₃, EtOH, H₂O; sl. sol. Et₂O, C₆H₆

Aldrich: 12325-0

Rare Chemicals Library: S41382-8

Sigma: A2165

>>Derivative: Oxime

Molecular Formula: C₁₂H₁₃N₃O₂

Molecular Weight: 231.254

Accurate Mass: 231.100777

Percentage Composition: C 62.33%; H 5.67%; N 18.17%; O 13.84%

Physical Description: Needles (EtOH)

Melting Point: Mp 216-218°

>>Derivative: Phenylhydrazone

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 236-238°

>>Derivative: Semicarbazone

Physical Description: Needles (EtOH)

Melting Point: Mp 223-224°

References:

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Passerini, M. *et al.*, *Gazz. Chim. Ital.*, 1940, **70**, 710, (*synth*)

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Bodendorf, K. *et al.*, *Annalen*, 1949, **563**, 1, (*synth*)

Ledrut, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1950, 232, (*derivs*)

Wrzeciono, U. *et al.*, *Pharmazie*, 1976, **31**, 149, (*synth*)