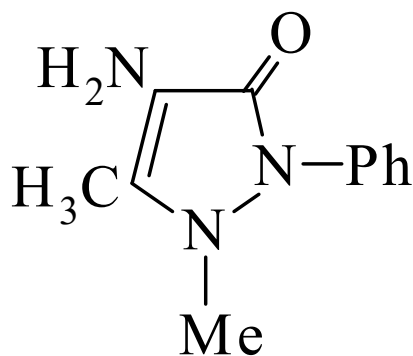




>>Entry Name: 4-Amino-1,2-dihydro-1,5-dimethyl-2-phenyl-3*H*-pyrazol-3-one, 9CI

Synonym(s): 4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one. 4-Aminoantipyrine, 8CI. Ampyrone



CAS Registry Number: 83-07-8

Molecular Formula: C₁₁H₁₃N₃O

Molecular Weight: 203.243

Accurate Mass: 203.105862

Percentage Composition: C 65.01%; H 6.45%; N 20.67%; O 7.87%

Source/Synthesis: Metab. of 1,2-Dihydro-1,5-dimethyl-2-phenyl-3*H*-pyrazol-3-one [BKM47-B](#)

Use/Importance: Widely used pharmaceutical intermed., component of various colorimetric reagents. Used as 3% aq. soln. in photometric detn. of H₂O₂, phenols. Used for detn. of glucose in the presence of phenol and peroxidase

Physical Description: Light-yellow needles (C₆H₆)

Melting Point: Mp 109°

Solubility: Sol. H₂O, acids, EtOH, CHCl₃; spar. sol. Et₂O

Hazard & Toxicity: LD₅₀ (rat, orl) 1700 mg/kg

Aldrich: A3930-0

Fluka: 6802

Sigma: A2814

>>Derivative: *N*-Ac

CAS Registry Number: 83-15-8

Molecular Formula: C₁₃H₁₅N₃O₂

Molecular Weight: 245.28

Accurate Mass: 245.116427

Percentage Composition: C 63.66%; H 6.16%; N 17.13%; O 13.05%

Melting Point: Mp 200-203°

Aldrich: A160-6

>>Derivative: *N*-(2-Hydroxybenzoyl)

>>Derivative: *N*-(3-Pyridinecarbonyl)

>>Derivative: *N*-(3-Pyridinecarbonyl), *N*-Me

>>Derivative: *N,N*-Di-Me

>>Derivative: *N*-(4-Quinazolinyl)

>>Derivative: *N*-Isopropyl

References: