

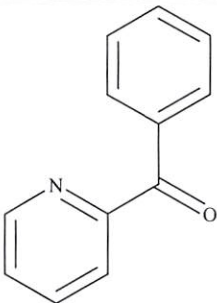
Certificate of Analysis

Certificate No.: 20240315507

Date: March 15, 2024

Retest date: March 14, 2027

Compound Name: Doxylamine EP Impurity D	
Synonyms:	phenyl(pyridin-2-yl)methanone
TLC Catalogue Number:	D-3815
CAS Number:	91-02-1
Molecular Weight:	183.21
Molecular Formula:	C ₁₂ H ₉ NO
Source:	TLC Pharmaceutical Standards
Source Lot No.:	1771-077A1
Storage Conditions:	Store at 2-8 °C
Solubility:	Acetonitrile



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.9%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.1%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control	<i>Kelin Zhu</i>	03/18/2024
Approved by:	Quality Assurance	<i>Karl</i>	03/18/2024

Attachments: HPLC, IR, MS and NMR spectra.