

R. Lettij

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CERTIFICATE OF ANALYSIS

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1. Identification				
Catalogue Number:	P479900	CAS Number:	110-85-0	
Product:	Piperazine	Synonym:	1,4-Diazacyclohexane; 1 Antiren; Diethylenediam Eraverm; Hexahydropyra 474; Piperazidine; Piper Hexahydride; Hexahydro 1,4-diazine; Uvilon; Verr Wurmirazin	ine; Dispermine; azine; Lumbrical; NSC sol; Pyrazine opyrazine; Tetrahydro-
Structure:	\sim		Molecular Formula:	
			C4H10N2	
			Molecular weight:	
			86.14	
			Source of Product:	
			N/A	
	Ť		Solubility:	
			Chloroform (Sparingly), Methanol (Slightly)	,
Lot Number:	54-GHZ-68-1	Purity:	97%	
Shipping Condition:	This Product Is Stable To Be Shipped At Room Temperature	Storage Condition:	20°C	
2. Warning				
Warning 1: Warning 2		ing 2:	Warning 3:	
3. Analytical I	nformation			
Tests:	Specifications:		Results:	
Appearance	White to Off-White Solid	t	White to Off-White Se	olid
GC Purity	Report Result		98.77%	
NMR	Conforms to Structure		Conforms	
C NMR	Conforms to Structure		Conforms	
MS	Conforms to Structure		Conforms	
Additional	Information: N/A			
Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.				
4. Signatures				
Reviewed	By Reviewed By	C of A Approv By	^{/ed} Test Date	Retest Date
swathi redd	y Toni Rantanen	Chanell Chu	8/25/2023	8/23/2027

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