



Version	01
Molecular weight	100.16
Quality Test / Release Date	10/04/2020
Molecular Formula	C5 H12 N2
CAS No	109-01-3
Linear Formula	
Flash Point (°C)	42

## Certificate of Analysis

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

<b>Catalog Number</b>	15691	<b>Quality Test / Release Date</b>	10/04/2020
<b>Lot Number</b>	A0364473	<b>Suggested retest date</b>	10/04/2025
<b>Description</b>	1-Methylpiperazine, 99%		
<b>Country of Origin</b>	CHINA		
<b>Declaration of Origin</b>	synthetic		

<b>BSE/TSE</b>	
<b>Chemical</b>	

Result name	Specifications	Test Value
Appearance (Form)	Clear liquid	Clear liquid
Color scale	=<20 APHA	10 APHA
Infrared spectrum	Authentic	Authentic
Refractive index	1.4645 to 1.4665 (20°C, 589 nm)	1.4659 (20°C, 589 nm)
GC	>=98.5 %	99.9 %
Water	=<1 % (K.F.)	0.1 % (K.F.)



A handwritten signature in black ink, appearing to read "C. Wygaerts", is written over a light blue circular background.

C. Wygaerts, QA Manager

Issued: 10-05-2020

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