



Version	00
Molecular weight	100.16
Quality Test / Release Date	01/11/2019
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 above mentioned lot number 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. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

Catalog Number	15691	Quality Test / Release Date 01/11/2019
Lot Number	A0404170	
Description	1-Methylpiperazine, 99%	
Country of Origin	CHINA	
Declaration of Origin	synthetic	

BSE/TSE comment	
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Chemical Comment	
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Result name	Units	Specifications	Test Value
Appearance (Form)		Clear liquid	Clear liquid
Color scale		≤20 APHA	≤20 APHA
Infrared spectrum		Conforms	Conforms
Refractive index		1.4645 to 1.4665 (20°C, 589 nm)	1.4659 (20°C, 589 nm)
GC		≥98.5 %	99.8 %
Water		≤1 % (K.F.)	0.1 % (K.F.)



A handwritten signature in black ink, appearing to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 01-14-2019

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