



Version	02
Molecular weight	86.14
Molecular Formula	C ₄ H ₁₀ N ₂
CAS No	110-85-0
Linear Formula	
Flash Point (°C)	65

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.

Catalog Number	38025
Lot Number	A0428237
Description	Piperazine
Country of Origin	BELGIUM
Declaration of Origin	synthetic

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	Colorless to white	White
Appearance (Form)	Crystals or flakes	Flakes
Infrared spectrum	Conforms	Conforms
Titration with HCl	98.0 to 101.0 %	100.1 %
Melting point	105°C to 111°C	111°C
Water	=<2.0 % (K.F.)	0.1 % (K.F.)
Sulfated ash	=<0.1 % (1 g)	(1 g) None detected
Heavy metals (as Pb)	=<20 ppm	=<20 ppm
Appearance of solution	Clear and not more intensely colored than ref. B8	Clear and not more intensely colored than ref. B8
pH	10.5 to 12.0 (5 % in water)	11.7 (5 % in water)
Related substances	(Ph. Eur. (TLC)) Passes test	(Ph. Eur. (TLC)) Passes test
Manufacturing date		February 25, 2021
Use by date		February 25, 2023



A handwritten signature in black ink, appearing to read "C. Wygaerts".

C. Wygaerts, QA Manager

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