



Version	00
Molecular weight	194.19
Molecular Formula	C8 H10 N4 O2
CAS No	58-08-2
Linear Formula	
Flash Point (°C)	

Certificate of Analysis

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Catalog Number	10816	Quality Test / Release Date	08/29/2024
Lot Number	A0465769	Suggested retest date	08/29/2029
Description	Caffeine,98.5%,specified according to the req. of USP/BP		
Country of Origin	CHINA		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White or almost white	White
Appearance (Form)	Crystalline powder or crystals	Crystalline powder
Infrared spectrum	Conforms	Conforms
Melting point	234°C to 239°C	237°C
Titration with HClO4	98.5 to 101.5 % (On anhydrous substance)	99.8 % (On anhydrous substance)
Loss on drying	=<0.5 %	0.06 %
Sulfate (SO4)	=<500 ppm	=<500 ppm
Sulfated ash	=<0.1 %	0.03 %
Acidity	=<0.2 ml of 0.01M NaOH	=<0.2 ml of 0.01M NaOH
Appearance of solution	(0.5g in 50 ml water) Clear colorless	(0.5g in 50 ml water) Clear colorless
HPLC	98.5 to 101.0 %	99.9 %
HPLC	=<0.1 % (any individual impurity)	=<0.1 % (any individual impurity)
HPLC	=<0.1 % (total impurities)	=<0.1 % (total impurities)

C. Wygaerts, QA Manager

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