

## Certificate of Analysis

Product Name:

**Caffeine Melting Point PurCert Secondary Reference Standard (CRM)**  
**[Includes characterization data for Identification test]**

Product No.: PSR50284  
Lot No.: Sample COA  
Brand: PureSynth  
CAS No.: 58-08-2  
Molecular Formula: C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>  
Molecular Weight: 194.19 g/mol  
Date of Mfg.: NA  
Date of Exp.: NA

Test	Specification	Result
Appearance	Yellow to brown Solid or Powder	White Powder
Melting Range	234.8 °C – 238.6 °C	234.8 °C – 238.6 °C
Melting Point	234.8 °C – 238.6 °C	237.3 °C
Identification by IR	Conforms to Structure	Conforms to Structure

**Traceable to USP Reference standard 1086006 LOT NO R141P0**

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.  
For queries on this COA, please contact our technical team at [technical@pure-synth.com](mailto:technical@pure-synth.com)

---

**Remarks:**

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at [www.pure-synth.com](http://www.pure-synth.com)

Inspect on receipt

**Instructions for handling:**

After opening, store in a desiccator. Gently pulverize material and then dry at 80°C for 4 hours before use.

Ucrm for melting point: For PSR50307:  $\pm 0.25$ ,  $k=2.31$  and for USP lot R141R0:  $\pm 0.30$ ,  $k=2.20$

**Storage Condition:**

Store at a room temperature and keep the container tightly closed.

PureSynth Research Chemicals GmbH

*This is electronically-generated copy & is valid without a signature*

---

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.  
For queries on this COA, please contact our technical team at [technical@pure-synth.com](mailto:technical@pure-synth.com)