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## CERTIFICATE OF ANALYSIS

Analysis Date: Nov 2024

Re-test Date: Oct 2027

**Product Name: Caffeine EP Impurity D**

### Identification:

Chemical Name: 3,7-Dimethyl-3,7-dihydro-1H-purine-2,6-dione (as per EP)

Synonyms : Theobromine (EP) ; Caffeine USP  
Related Compound D

CAS Number : 83-67-0

CAT Number : CP-C47004

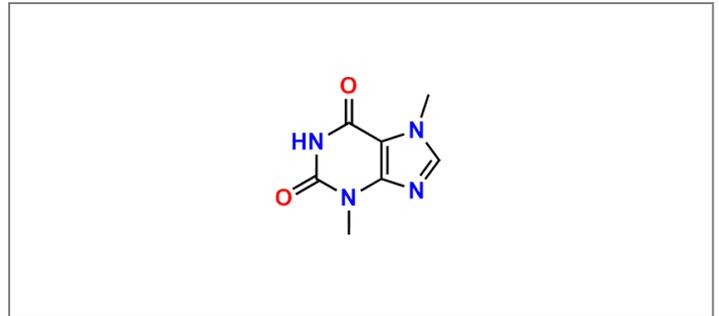
Molecular Formula : C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight : 180.16

Batch Number : CP-CAP-D-1024

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White to Off White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.66%
5)	<sup>1</sup> HNMR	Confirm to structure
6)	Weight loss by TGA	0.078%
7)	Potency by TGA	99.58%



Prepared and Reviewed By

Ms Priyanka Salunkhe  
(Quality Control)

Approved By

Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.