

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC041005-01)

Release Date: 17/10/2024

Re-test Date: 16/10/2027

## Caffeine

### Identification

**Chemical Name :**

1,3,7-Trimethyl-3,7-dihydro-1H-purine-2,6-dione (as per EP) ; 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (as per USP)

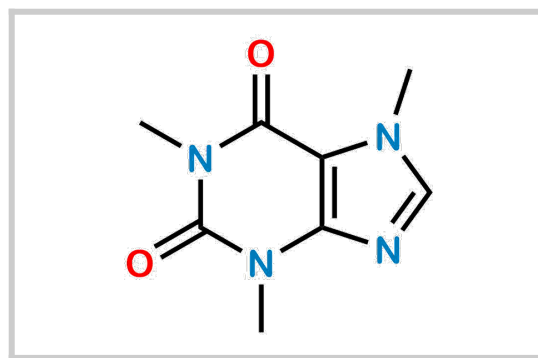
**Alt. Name** : Theophylline EP Impurity A ;  
Pentoxifylline EP Impurity F

**CAT No.** : KMC041005

**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** : 194.2



### Analytical Information

**Batch No.** : C041005-073-412

**Description** : Yellow Solid

**HPLC Purity** : 99.96 %

**Weight Loss By TGA** : 0.062 %

**% Potency** : 99.9 %

**Solubility** : Acetonitrile

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 0.062(Weight Loss By TGA)] x [99.96(HPLC Purity)]/100 = 99.9 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		23/10/2024
Reviewed & Approved By	Quality Control	Jatin Patel		23/10/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA