

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	33898
Lot Number	003231-1032109017
Product	Caffeine 1,3,7-Trimethylxanthine 3,7-Dihydro-1,3,7-trimethyl-1 <i>H</i> -purine-2,6-dione
CAS Number	58-08-2
Molecular Formula	C ₈ H ₁₀ N ₄ O ₂
Molecular Weight	194.19

Appearance	White crystalline powder
Odor	Odorless
Melting Point	236.0 - 236.7 °C
Heavy Metals	< 10 ppm
Anion	Sulphates : < 500 ppm (BP/EP)
Cation	Lead (Pb) : < 1 mg/Kg (FCC) Arsenic : < 1.5 ppm Cadmium : < 0.5 ppm Lead : < 0.5 ppm Mercury : < 0.2 ppm
pH	5.5 - 6.5
Acidity	< 0.2 mL of 0.01 M NaOH
Yeast and Mold	< 100 cfu/g
Loss on Drying	0.07% (BP/EP)
Coliform Organisms	< 10 cfu/g
E. Coli, Salmonella, S.Aureus	Negative
Microbial Count	< 1000 cfu/g (TABC)

Certificate of Analysis

Catalog Number: 33898

Lot Number: 003231-1032109017

Organic Volatile Impurities	Individual impurity : < 0.1% (USP) Total impurities : < 0.1% (USP)
Readily Carbonizable Substance	Passes test
Related Substances	Each impurity A,B,C,D,E,F : < 0.10% (BP/EP) Unspecified impurities : < 0.10% (BP/EP) Total impurities : < 0.10% (BP/EP)
Residue On Ignition	0.04% (BP/EP)
Assay	99.8%
Grade	FG, FEMA 2224
Storage	Store at 0 - 8 °C
Additional Information	Identifications : Passes test Other alkaloids : No precipitate is formed Flavor : Bitter
Remarks	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager