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ProductInformation

1H-Purine-2,6-dione, 3,7-dihydro-

CAFFEINE (ANHYDROUS) SIGMA REFERENCE STANDARD

Product No. C1778

Lot No: 23K8803

Storage Temperature: Room Temperature

Formula: $C_8H_{10}N_4O_2$

Formula Weight: 194.19

Product Description

This product meets or exceeds USP specifications (Current through USP 26), and is traceable to USP Reference Standard lot J

Store in sealed vial at room temperature. Dry a portion at 80 degrees for 4 hours before using. Use promptly. Discard un-used material.

CAS No:

Synonyms:

58-08-2

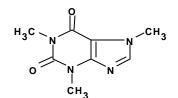
1,3,7-trimethyl-.

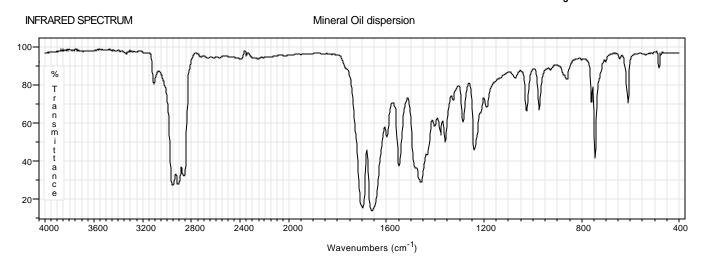
1,3,7-Trimethylxanthine.

TEST	USP 26 SPECIFICATIONS	Result Sigma R.S. 23K8803
Infrared absorption spectrum Mineral Oil dispersion (197 M)	compares to standard	conforms to USP RS lot J
Identification B	color change as described	passes
Melting range $\langle 741 \rangle$	between 235° and 239°	235.0° - 237.5°
Water Method III (921)	not more than 0.5%	passes
Residue on ignition (281)	not more than 0.1%	passes
Heavy Metals Method II (231)	< 0.001%	passes
Readily carbonizible substances $\langle 271 \rangle$	no more color than Matching Fluid D	passes
Organic volatile impurities Method I (467)	meets requirement	meets requirement
Other alkaloids	no precipitate is formed	passes
Chromatographic Purity	not more than 0.1% of any individual impurity is found and the total of for all impurities is not more than 0.1%	passes
Assay (621)	not less than 98.5% and not more than 101.0% on the anhydrous basis	98.9%

See reverse side for IR spectrum of Sigma Reference Standard.

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2/2003

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