

Specification

Technical Data Sheet

CAS**58-08-2****STORAGE****Ambient****MOLECULAR WEIGHT****194.19****PRODUCT****Caffeine - USP CRS****Product number** 90033336**CAS number** 58-08-2**Molecular formula** C₈H₁₀N₄O₂**Molecular weight** 194.19 g/mol**PARAMETER****SPECIFICATION**

Appearance	White crystalline powder/ white crystals
Grade	USP
Loss on Drying	≤ 0.5%
Melting Point	235 - 237.5°C
Acidity	≤ 0.2ml of 0.01M NaOH
Other Alkaloids	No precipitate formed
Readily Carbonisable Substances	Qualifies
Solubility	Conforms to USP solubility requirements: Freely soluble in boiling water;slightly soluble in ethanol.
Sulphated Ash	≤ 0.1%
Total Impurities	≤ 0.1%
Assay (dried basis)	98.5 - 101%
Identification (IR)	Conforms to Reference
Lead (Pb)	≤ 1ppm
Sulphates (SO₄)(2-)	≤ 500ppm

**SPECIFICATION
STATEMENT**

The values stated above represent the standard specification for this product, issued under **Molekula Ltd**'s quality management system. Batch-specific

	results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.
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