

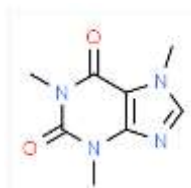


Certificate of Analysis.

Caffeine, Melting Point Standard.

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|------------------------------|---|
| Product Code: | BS10122. |
| Description: | Caffeine, Melting Point Standard. |
| Chemical Name: | 1,3,7-trimethylpurine-2,6-dione. |
| Pack: | 1 gm. |
| CAS No.: | 58-08-2. |
| Mol. Weight: | 194.19 g/mol. |
| Mol. Formula: | C₈H₁₀N₄O₂. |
| Solubility: | Slightly soluble in water (20 g/l at 20°C). |
| Boiling Point: | 178°C (sublimation). |
| Melting Point: | 234-236.5°C. |
| Flash Point: | 178°C. |
| Density: | 1.23 g/cm³. |
| Refractive Index (estimate): | 1.6590. |
| pH: | 5.5-6.5 at 25°C. |
| Storage: | Store at 2-8°C. |
| LOT NO.: | Sample. |
| Manufacture Date: | Lot specific. |
| Expiry Date: | 3 years. |

| Characteristics | Specification | Measured Values |
|--------------------------------|---------------------------------|----------------------|
| Appearance: | White needles or powder. | Lot specific. |
| Odour: | Odourless. | Lot specific. |
| Assay (as is as basis): | Not less than 99.8%. | Lot specific. |
| Melting Point Range USP <741>: | 235-239°C. | Lot specific. |
| Melting Onset Temperature: | 235-236°C. | Lot specific. |
| Melting Clear Temperature: | 237-238°C. | Lot specific. |



Prepared by.
D. Navaneetha.
Chemist.

Reviewed by.
N. Sai Kumar.
Sr Chemist.

