

# Rexar Technical Compound Datasheet

**Product Name:** Teacrine

**Chemical Name:** 1,3,7,9-Tetramethyluric acid

**CAS Number:** 2309-49-1

**PubChem CID:** [75324](#)

## Synonyms:

- Theacrine
- Tetramethyluric acid
- 1,3,7,9-Tetramethyluric acid
- Theacrine anhydrous

---

## Chemical Information

**Molecular Formula** C<sub>9</sub>H<sub>12</sub>N<sub>4</sub>O<sub>3</sub>

**Molecular Weight** 224.22 g/mol

**IUPAC Name** 1,3,7,9-tetramethylpurine-2,6,8-trione

**SMILES** CN1C=NC2=C1C(=O)N(C(=O)N2C)C

**InChIKey** UZVSRMZJUFGKNT-UHFFFAOYSA-N

**Appearance** White to off-white crystalline powder

**Solubility** Slightly soluble in water; soluble in DMSO and ethanol

---

## Applications

- Analytical reference for purine alkaloids
- Chromatographic calibration and purity profiling
- Structural and solubility testing under laboratory protocols

---

## Storage & Handling

**Storage Temperature** 15–25 °C

**Environment** Dry, cool, and protected from light

**Handling** Use standard laboratory safety procedures

**Packaging** Delivered in sealed containers for lab use only

---

## Additional Notes

- Offered exclusively as a technical compound for analytical purposes
- No health, nutritional, or consumer claims are associated with this product
- For detailed chemical data, visit: [PubChem CID 75324](#)