

## Rexar Technical Compound Datasheet

**Product Name:** Aniracetam

**Chemical Name:** 1-(4-Methoxybenzoyl)-2-pyrrolidinone

**CAS Number:** 72432-10-1

**PubChem CID:** [2162](#)

**Synonyms:**

- Ro 13-5057
- 1-Pyrrolidinone, 2-(4-methoxybenzoyl)-
- Ampamet

---

### Chemical Information

**Molecular Formula** C<sub>12</sub>H<sub>13</sub>NO<sub>3</sub>

**Molecular Weight** 219.24 g/mol

**IUPAC Name** 1-(4-methoxybenzoyl)pyrrolidin-2-one

**SMILES** COC1=CC=C(C(=C1)C(=O)N2CCCC2=O)

**InChIKey** PQOBGFOURNNYDW-UHFFFAOYSA-N

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

**Solubility** Soluble in ethanol and DMSO; limited solubility in water

---

### Applications

- Analytical standard for racetam-type nootropic analogues
- Utilized in the development of chromatographic and spectrometric methods
- Employed in physicochemical property testing and degradation profiling
- Frequently used in research on pyrrolidone-based compound libraries\*

---

### Storage & Handling

**Storage Temperature** Store at 2–8 °C; protect from light and moisture

**Handling** Use personal protective equipment; avoid inhalation

**Packaging** Delivered in tamper-evident, sealed lab-grade containers

---

### Additional Notes

- Not for human or veterinary use
- Distributed for laboratory, assay development, and analytical study
- For complete technical data, refer to [PubChem CID 2162](#)