

Rexar Technical Compound Datasheet

Product Name: Phenylpiracetam

Chemical Name: (RS)-2-(2-Oxo-4-phenylpyrrolidin-1-yl)acetamide

CAS Number: 77472-70-9

PubChem CID: [184203](#)

Synonyms:

- Carphedon
- Phenotropil
- Fonturacetam
- 4-Phenylpiracetam
- Phenylpiracetamum

Chemical Information

Molecular Formula C12H14N2O2

Molecular Weight 218.25 g/mol

IUPAC Name 2-(2-oxo-4-phenylpyrrolidin-1-yl)acetamide

SMILES C1CC(=O)N(C1Cc2cccc2)CC(=O)N

InChIKey CYPFFJOOQJFPEK-UHFFFAOYSA-N

Appearance White crystalline powder

Solubility Soluble in DMSO, ethanol; slightly soluble in water

Applications

- Reference standard for racetam-class compounds
- Used in analytical method development and compound validation
- Applied in structure–activity relationship (SAR) studies of cognitive compounds*
- Investigated in preclinical models for CNS-related targets*

Storage & Handling

Storage Temperature Store at 2–8 °C in a dry and dark environment

Handling Use appropriate PPE; avoid inhalation or skin contact

Packaging Sealed, research-grade containers

Additional Notes

- This material is supplied for scientific research purposes only
- Not intended for use in humans or animals
- More data available at [PubChem CID 184203](#)