

Rexar Technical Compound Datasheet

Product Name: Nefiracetam

Chemical Name: N-(2,6-dimethylphenyl)-2-(2-oxopyrrolidin-1-yl)acetamide

CAS Number: 77191-36-7

PubChem CID: [71157](#)

Synonyms:

- DM-9384
- E-3620
- Nefiracetamum
- Nefiracetam base

Chemical Information

Molecular Formula C₁₄H₁₈N₂O₂

Molecular Weight 246.31 g/mol

IUPAC Name N-(2,6-dimethylphenyl)-2-(2-oxopyrrolidin-1-yl)acetamide

SMILES CC1=CC=C(C=C1C)NC(=O)CN2CCCC2=O

InChIKey FMGSKWZJUYFBSM-UHFFFAOYSA-N

Appearance White to off-white powder

Solubility Soluble in DMSO and ethanol; limited water solubility

Applications

- Reference compound in nootropic and cholinergic system research
- Used in analytical method development for racetam analogues
- Suitable for spectroscopic profiling (e.g. NMR, IR, LC-MS)
- Preclinical compound for studies on cognition and memory*

Storage & Handling

Storage Temperature 4–20 °C, dry and protected from light

Handling Follow standard lab safety practices

Packaging Supplied in sealed, research-grade containers

Additional Notes

- Supplied strictly for laboratory and analytical use
- Not intended for human or animal consumption
- Refer to [PubChem CID 71157](#) for full structure and identifiers