

Piracetam

| | |
|-----------------------------|---|
| Other names: | 1-Pyrrolidineacetamide, 2-oxo- 1-Acetamido-2-pyrrolidinone Euvifor Gabacet Genogris 2-Ketopyrrolidine-1-ylacetamide Nootron Nootropil Nootropyl Normabrain 2-Oxo-pyrrolidine acetamide 2-Oxo-pyrrolidin-1-ylacetamide Piracetam Pirroxil Pyracetam Pyramem 2-Pyrrolidinoneacetamide 2-Pyrrolidoneacetamide UCB 6215 2-Oxo-1-pyrrolidineacetamide Avigilen Axonyl Cerebroforte CI-781 Encetrop Geram Nootrop Norzetam |
| Inchi: | InChI=1S/C6H10N2O2/c7-5(9)4-8-3-1-2-6(8)10/h1-4H2,(H2,7,9) |
| InchiKey: | GMZVRMREEHBGGF-UHFFFAOYSA-N |
| Formula: | C6H10N2O2 |
| SMILES: | NC(=O)CN1CCCC1=O |
| Mol. weight [g/mol]: | 142.16 |
| CAS: | 7491-74-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------|------|--------|
|---------------|-------|------|--------|

| | | | |
|---------|---------|--------|----------------|
| log10ws | 0.22 | | Crippen Method |
| logp | -0.906 | | Crippen Method |
| mcvol | 107.640 | ml/mol | McGowan Method |
| rinpol | 1640.00 | | NIST Webbook |
| rinpol | 1640.00 | | NIST Webbook |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C7491749&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

| | |
|-----------------|-------------------------------------|
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| rinpol: | Non-polar retention indices |

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