

N-Cyclohexyl-2-pyrrolidone

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|-----------------------------|---|
| Other names: | 1-Cyclohexyl-2-pyrrolidinone 1-Cyclohexyl-2-pyrrolidone 2-Pyrrolidinone, 1-cyclohexyl- CHP Cyclohexyl-2-pyrrolidone N-Cyclohexylpyrrolidone N-cyclohexylpyrrolidinone pyrrolidinone, N-cyclohexyl- |
| Inchi: | InChI=1S/C10H17NO/c12-10-7-4-8-11(10)9-5-2-1-3-6-9/h9H,1-8H2 |
| InchiKey: | PZYDAVFRVJXFHS-UHFFFAOYSA-N |
| Formula: | C10H17NO |
| SMILES: | O=C1CCCN1C1CCCCC1 |
| Mol. weight [g/mol]: | 167.25 |
| CAS: | 6837-24-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| log10ws | -2.25 | | Crippen Method |
| logp | 1.942 | | Crippen Method |
| mvol | 141.590 | ml/mol | McGowan Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|------|-----------------|--|
| rfl | 1.49750 | | 298.15 | Liquid liquid equilibria of lactam containing binary systems |

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Liquid liquid equilibria of lactam containing binary systems: <https://www.doi.org/10.1016/j.fluid.2008.02.008>
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C6837247&Units=SI>

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rfi: Refractive Index

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