# Alpha,alpha'-diacetyl-n,n'-dicyclohexyl-glutaramic

**Inchi:** InChI=1S/C21H34N2O4/c1-14(24)18(20(26)22-16-9-5-3-6-10-16)13-19(15(2)25)21(27)23
**InchiKey:** VBQMOKSUEKZSOD-UHFFFAOYSA-N
**Formula:** C21H34N2O4
**SMILES:** CC(=O)C(CC(C(C)=O)C(=O)NC1CCCCC1)C(=O)NC1CCCCC1
**Mol. weight [g/mol]:** 378.51
**CAS:** 30564-13-7

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -166.94 | kJ/mol | Joback Method |
| hf | -722.07 | kJ/mol | Joback Method |
| hfus | 43.36 | kJ/mol | Joback Method |
| hvap | 102.28 | kJ/mol | Joback Method |
| log10ws | -4.63 | | Crippen Method |
| logp | 2.685 | | Crippen Method |
| mcvol | 311.270 | ml/mol | McGowan Method |
| pc | 1562.28 | kPa | Joback Method |
| tb | 1033.92 | K | Joback Method |
| tc | 1272.85 | K | Joback Method |
| tf | 616.23 | K | Joback Method |
| vc | 1.159 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1116.78 | J/mol×K | 1033.92 | Joback Method |
| cpg | 1130.36 | J/mol×K | 1073.74 | Joback Method |
| cpg | 1142.25 | J/mol×K | 1113.56 | Joback Method |
| cpg | 1152.56 | J/mol×K | 1153.38 | Joback Method |
| cpg | 1161.36 | J/mol×K | 1193.20 | Joback Method |
| cpg | 1168.76 | J/mol×K | 1233.02 | Joback Method |
| cpg | 1174.83 | J/mol×K | 1272.85 | Joback Method |

# Sources

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|---|---|
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C30564137&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |