# Cyclohexyl 2-deoxy-3,4,6-tri-O-methyl-2-(N-methylacetamido)

**Inchi:** InChI=1S/C18H33NO6/c1-12(20)19(2)15-17(23-5)16(22-4)14(11-21-3)25-18(15)24-13-9-

**InchiKey:** VHHBUELNGTZTNP-ATIWLJMLSA-N

**Formula:** C18H33NO6

**SMILES:** COCC1OC(OC2CCCCC2)C(N(C)C(C)=O)C(OC)C1OC

**Mol. weight [g/mol]:** 359.46

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -405.52 | kJ/mol | Joback Method |
| hf | -1093.50 | kJ/mol | Joback Method |
| hfus | 47.68 | kJ/mol | Joback Method |
| hvap | 78.22 | kJ/mol | Joback Method |
| log10ws | -2.09 | | Crippen Method |
| logp | 1.584 | | Crippen Method |
| mcvol | 283.660 | ml/mol | McGowan Method |
| pc | 1388.15 | kPa | Joback Method |
| rinpol | 2284.16 | | NIST Webbook |
| tb | 814.60 | K | Joback Method |
| tc | 1021.11 | K | Joback Method |
| tf | 488.31 | K | Joback Method |
| vc | 1.022 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 971.91 | J/mol×K | 814.60 | Joback Method |
| cpg | 993.27 | J/mol×K | 849.02 | Joback Method |
| cpg | 1012.81 | J/mol×K | 883.44 | Joback Method |
| cpg | 1030.53 | J/mol×K | 917.85 | Joback Method |
| cpg | 1046.41 | J/mol×K | 952.27 | Joback Method |
| cpg | 1060.41 | J/mol×K | 986.69 | Joback Method |
| cpg | 1072.52 | J/mol×K | 1021.11 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R496318&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **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 |

# Legend

| | |
|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |