# 4-Cyclopent-3-enyl-cyclohexene

**Inchi:** InChI=1S/C11H16/c1-2-6-10(7-3-1)11-8-4-5-9-11/h1-2,4,8,10-11H,3,5-7,9H2
**InchiKey:** JHYOKBQPGKEDCZ-UHFFFAOYSA-N
**Formula:** C11H16
**SMILES:** C1=CC(C2CC=CCC2)CC1
**Mol. weight [g/mol]:** 148.24

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 162.66 | kJ/mol | Joback Method |
| hf | -40.01 | kJ/mol | Joback Method |
| hfus | 12.46 | kJ/mol | Joback Method |
| hvap | 41.35 | kJ/mol | Joback Method |
| log10ws | -3.44 | | Crippen Method |
| logp | 3.309 | | Crippen Method |
| mcvol | 135.530 | ml/mol | McGowan Method |
| pc | 3028.94 | kPa | Joback Method |
| rinpol | 1172.00 | | NIST Webbook |
| rinpol | 1208.00 | | NIST Webbook |
| tb | 484.23 | K | Joback Method |
| tc | 716.36 | K | Joback Method |
| tf | 233.53 | K | Joback Method |
| vc | 0.497 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 301.37 | J/mol×K | 484.23 | Joback Method |
| cpg | 323.13 | J/mol×K | 522.92 | Joback Method |
| cpg | 343.46 | J/mol×K | 561.61 | Joback Method |
| cpg | 362.41 | J/mol×K | 600.30 | Joback Method |
| cpg | 380.05 | J/mol×K | 638.99 | Joback Method |
| cpg | 396.44 | J/mol×K | 677.67 | Joback Method |
| cpg | 411.64 | J/mol×K | 716.36 | Joback Method |
| dvisc | 0.0044984 | Pa×s | 233.53 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0020760 | Pa×s | 275.31 | Joback Method |
| dvisc | 0.0011747 | Pa×s | 317.10 | Joback Method |
| dvisc | 0.0007589 | Pa×s | 358.88 | Joback Method |
| dvisc | 0.0005371 | Pa×s | 400.66 | Joback Method |
| dvisc | 0.0004057 | Pa×s | 442.45 | Joback Method |
| dvisc | 0.0003217 | Pa×s | 484.23 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R136333&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 |
| **dvisc:** | Dynamic viscosity |
| **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 |