# 1-(2-propenyl)-trans-2-(4-pentenyl)-cyclopropane

**Inchi:** InChI=1S/C11H18/c1-3-5-6-8-11-9-10(11)7-4-2/h3-4,10-11H,1-2,5-9H2/t10-,11-/m1/s1
**InchiKey:** KKXDEBJQEVHHTH-GHMZBOCLSA-N
**Formula:** C11H18
**SMILES:** C=CCCCC1CC1CC=C
**Mol. weight [g/mol]:** 150.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 270.46 | kJ/mol | Joback Method |
| hf | 32.95 | kJ/mol | Joback Method |
| hfus | 20.89 | kJ/mol | Joback Method |
| hvap | 38.34 | kJ/mol | Joback Method |
| log10ws | -3.55 | | Crippen Method |
| logp | 3.555 | | Crippen Method |
| mcvol | 146.390 | ml/mol | McGowan Method |
| pc | 2282.77 | kPa | Joback Method |
| rinpol | 1022.20 | | NIST Webbook |
| rinpol | 1022.20 | | NIST Webbook |
| rinpol | 1025.10 | | NIST Webbook |
| tb | 446.51 | K | Joback Method |
| tc | 627.33 | K | Joback Method |
| tf | 223.91 | K | Joback Method |
| vc | 0.570 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 312.13 | J/mol×K | 446.51 | Joback Method |
| cpg | 328.78 | J/mol×K | 476.65 | Joback Method |
| cpg | 344.59 | J/mol×K | 506.78 | Joback Method |
| cpg | 359.60 | J/mol×K | 536.92 | Joback Method |
| cpg | 373.84 | J/mol×K | 567.05 | Joback Method |
| cpg | 387.36 | J/mol×K | 597.19 | Joback Method |
| cpg | 400.18 | J/mol×K | 627.33 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0010880 | Pa×s | 223.91 | Joback Method |
| dvisc | 0.0008165 | Pa×s | 261.01 | Joback Method |
| dvisc | 0.0006581 | Pa×s | 298.11 | Joback Method |
| dvisc | 0.0005563 | Pa×s | 335.21 | Joback Method |
| dvisc | 0.0004863 | Pa×s | 372.31 | Joback Method |
| dvisc | 0.0004356 | Pa×s | 409.41 | Joback Method |
| dvisc | 0.0003974 | Pa×s | 446.51 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R137034&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 |

# 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 |

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