

cis,cis-2,6-Octadiene

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|-----------------------------|--|
| Other names: | cis-2,cis-6-octadiene 2,6-Octadiene (cis) 2,6-Octadiene, Z,Z |
| Inchi: | InChI=1S/C8H14/c1-3-5-7-8-6-4-2/h3-6H,7-8H2,1-2H3/b5-3-,6-4- |
| InchiKey: | LAGGTOBQMQRXON-GLIMQPGKSA-N |
| Formula: | C8H14 |
| SMILES: | CC=CCCC=CC |
| Mol. weight [g/mol]: | 110.20 |
| CAS: | 18680-11-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 176.92 | kJ/mol | Joback Method |
| hf | 25.99 | kJ/mol | Joback Method |
| hfus | 16.88 | kJ/mol | Joback Method |
| hvap | 33.32 | kJ/mol | Joback Method |
| log10ws | -2.88 | | Crippen Method |
| logp | 2.919 | | Crippen Method |
| mcpol | 114.980 | ml/mol | McGowan Method |
| pc | 2823.32 | kPa | Joback Method |
| rinpol | 808.40 | | NIST Webbook |
| rinpol | 802.00 | | NIST Webbook |
| rinpol | 807.00 | | NIST Webbook |
| rinpol | 802.00 | | NIST Webbook |
| rinpol | 802.00 | | NIST Webbook |
| rinpol | 804.00 | | NIST Webbook |
| rinpol | 804.00 | | NIST Webbook |
| rinpol | 802.00 | | NIST Webbook |
| rinpol | 804.50 | | NIST Webbook |
| tb | 390.76 | K | Joback Method |
| tc | 571.58 | K | Joback Method |
| tf | 169.76 | K | Joback Method |
| vc | 0.444 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 203.62 | J/molxK | 390.76 | Joback Method |
| cpg | 216.35 | J/molxK | 420.90 | Joback Method |
| cpg | 228.43 | J/molxK | 451.03 | Joback Method |
| cpg | 239.90 | J/molxK | 481.17 | Joback Method |
| cpg | 250.79 | J/molxK | 511.30 | Joback Method |
| cpg | 261.13 | J/molxK | 541.44 | Joback Method |
| cpg | 270.94 | J/molxK | 571.58 | Joback Method |
| dvisc | 0.0049045 | Paxs | 169.76 | Joback Method |
| dvisc | 0.0016869 | Paxs | 206.59 | Joback Method |
| dvisc | 0.0008014 | Paxs | 243.43 | Joback Method |
| dvisc | 0.0004630 | Paxs | 280.26 | Joback Method |
| dvisc | 0.0003039 | Paxs | 317.09 | Joback Method |
| dvisc | 0.0002177 | Paxs | 353.93 | Joback Method |
| dvisc | 0.0001661 | Paxs | 390.76 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C18680110&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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