# Panaxene

**Inchi:** InChI=1S/C15H24/c1-7-14(6)9-8-12-13(4,5)10-15(12,14)11(2)3/h7,12H,1-2,8-10H2,3-6H
**InchiKey:** UAOBSVDFJSNTLJ-UHFFFAOYSA-N
**Formula:** C15H24
**SMILES:** C=CC1(C)CCC2C(C)(C)CC21C(=C)C
**Mol. weight [g/mol]:** 204.35
**CAS:** 871660-95-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 320.06 | kJ/mol | Joback Method |
| hf | 32.62 | kJ/mol | Joback Method |
| hfus | 8.15 | kJ/mol | Joback Method |
| hvap | 43.65 | kJ/mol | Joback Method |
| log10ws | -4.63 | | Crippen Method |
| logp | 4.581 | | Crippen Method |
| mcvol | 191.890 | ml/mol | McGowan Method |
| pc | 2038.23 | kPa | Joback Method |
| rinpol | 1312.00 | | NIST Webbook |
| rinpol | 1313.60 | | NIST Webbook |
| rinpol | 1313.60 | | NIST Webbook |
| tb | 544.97 | K | Joback Method |
| tc | 765.66 | K | Joback Method |
| tf | 336.91 | K | Joback Method |
| vc | 0.737 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 491.98 | J/mol×K | 544.97 | Joback Method |
| cpg | 513.69 | J/mol×K | 581.75 | Joback Method |
| cpg | 533.75 | J/mol×K | 618.53 | Joback Method |
| cpg | 552.52 | J/mol×K | 655.31 | Joback Method |
| cpg | 570.37 | J/mol×K | 692.10 | Joback Method |
| cpg | 587.65 | J/mol×K | 728.88 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 604.73 | J/mol×K | 765.66 | Joback Method |

# Sources

| | |
|---|---|
| **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=C871660956&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |