# Silphiperfola-4,7(14)-diene

**Inchi:** InChI=1S/C15H22/c1-10-5-8-15-12(3)11(2)9-14(15,4)7-6-13(10)15/h9-10,13H,3,5-8H2,1-
**InchiKey:** WBXUOIDEYMLLNE-UHFFFAOYSA-N
**Formula:** C15H22
**SMILES:** C=C1C(C)=CC2(C)CCC3C(C)CCC132
**Mol. weight [g/mol]:** 202.34
**CAS:** 210637-49-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 288.19 | kJ/mol | Joback Method |
| hf | -6.16 | kJ/mol | Joback Method |
| hfus | 12.96 | kJ/mol | Joback Method |
| hvap | 47.57 | kJ/mol | Joback Method |
| log10ws | -4.53 | | Crippen Method |
| logp | 4.335 | | Crippen Method |
| mcvol | 181.030 | ml/mol | McGowan Method |
| pc | 2222.89 | kPa | Joback Method |
| rinpol | 1361.00 | | NIST Webbook |
| rinpol | 1362.50 | | NIST Webbook |
| tb | 570.47 | K | Joback Method |
| tc | 798.02 | K | Joback Method |
| tf | 376.11 | K | Joback Method |
| vc | 0.696 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 482.27 | J/mol×K | 570.47 | Joback Method |
| cpg | 503.46 | J/mol×K | 608.40 | Joback Method |
| cpg | 523.18 | J/mol×K | 646.32 | Joback Method |
| cpg | 541.72 | J/mol×K | 684.25 | Joback Method |
| cpg | 559.40 | J/mol×K | 722.17 | Joback Method |
| cpg | 576.51 | J/mol×K | 760.10 | Joback Method |
| cpg | 593.35 | J/mol×K | 798.02 | Joback Method |

# Sources

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|---|---|
| **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=C210637493&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |