

(4aR,5R,9aR)-1,1,4a,8-Tetramethyl-2,3,4,4a,5,6,7,9

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|-----------------------------|---|
| Inchi: | InChI=1S/C15H26O/c1-11-6-7-13(16)15(4)9-5-8-14(2,3)12(15)10-11/h10,12-13,16H,5-9H |
| InchiKey: | ZLJPQFLGGAYZAN-YDHLFZDLSA-N |
| Formula: | C15H26O |
| SMILES: | CC1=CC2C(C)(C)CCCC2(C)C(O)CC1 |
| Mol. weight [g/mol]: | 222.37 |
| CAS: | 19435-77-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -6.47 | kJ/mol | Joback Method |
| hf | -354.25 | kJ/mol | Joback Method |
| hfus | 14.84 | kJ/mol | Joback Method |
| hvap | 64.38 | kJ/mol | Joback Method |
| log10ws | -4.39 | | Crippen Method |
| logp | 3.920 | | Crippen Method |
| mcvol | 202.060 | ml/mol | McGowan Method |
| pc | 2191.78 | kPa | Joback Method |
| rinpol | 1673.80 | | NIST Webbook |
| tb | 664.89 | K | Joback Method |
| tc | 879.55 | K | Joback Method |
| tf | 390.51 | K | Joback Method |
| vc | 0.749 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 596.53 | J/mol×K | 664.89 | Joback Method |
| cpg | 616.99 | J/mol×K | 700.67 | Joback Method |
| cpg | 636.59 | J/mol×K | 736.44 | Joback Method |
| cpg | 655.52 | J/mol×K | 772.22 | Joback Method |
| cpg | 673.99 | J/mol×K | 808.00 | Joback Method |
| cpg | 692.21 | J/mol×K | 843.77 | Joback Method |
| cpg | 710.38 | J/mol×K | 879.55 | 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=C19435779&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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