# (1S,2R,4S,7R)-7-((E)-5-Hydroxy-4-methylpent-3-en

**Inchi:** InChI=1S/C15H26O2/c1-11(10-16)5-4-7-14(2)12-6-8-15(14,3)13(17)9-12/h5,12-13,16-17
**InchiKey:** FUCSWNUANQRDFQ-VZUCSPMQSA-N
**Formula:** C15H26O2
**SMILES:** CC(=CCCC1(C)C2CCC1(C)C(O)C2)CO
**Mol. weight [g/mol]:** 238.37
**CAS:** 201731-87-5

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -43.55 | kJ/mol | Joback Method |
| hf | -420.72 | kJ/mol | Joback Method |
| hfus | 25.39 | kJ/mol | Joback Method |
| hvap | 79.46 | kJ/mol | Joback Method |
| log10ws | -3.66 | | Crippen Method |
| logp | 2.892 | | Crippen Method |
| mcvol | 207.930 | ml/mol | McGowan Method |
| pc | 2250.40 | kPa | Joback Method |
| rinpol | 1958.80 | | NIST Webbook |
| rinpol | 1958.80 | | NIST Webbook |
| tb | 739.89 | K | Joback Method |
| tc | 930.76 | K | Joback Method |
| tf | 433.09 | K | Joback Method |
| vc | 0.794 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 653.68 | J/mol×K | 739.89 | Joback Method |
| cpg | 669.60 | J/mol×K | 771.70 | Joback Method |
| cpg | 685.33 | J/mol×K | 803.51 | Joback Method |
| cpg | 701.02 | J/mol×K | 835.32 | Joback Method |
| cpg | 716.88 | J/mol×K | 867.14 | Joback Method |
| cpg | 733.09 | J/mol×K | 898.95 | Joback Method |
| cpg | 749.81 | J/mol×K | 930.76 | 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=C201731875&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 |