# cis-Hept-4-enol

**Other names:** (4Z)-4-Hepten-1-ol
(Z)-4-Hepten-1-ol
(Z)-Hept-4-en-1-ol
4-Hepten-1-ol, (Z)-
4-Hepten-1-ol, cis-
cis-4-Hepten-1-ol
**Inchi:** InChI=1S/C7H14O/c1-2-3-4-5-6-7-8/h3-4,8H,2,5-7H2,1H3/b4-3-
**InchiKey:** CUKAXHVLXKIPKF-ARJAWSKDSA-N
**Formula:** C7H14O
**SMILES:** CCC=CCCCO
**Mol. weight [g/mol]:** 114.19
**CAS:** 6191-71-5

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -48.54 | kJ/mol | Joback Method |
| hf | -222.82 | kJ/mol | Joback Method |
| hfus | 18.18 | kJ/mol | Joback Method |
| hvap | 47.81 | kJ/mol | Joback Method |
| log10ws | -1.87 | | Crippen Method |
| logp | 1.725 | | Crippen Method |
| mcvol | 111.060 | ml/mol | McGowan Method |
| pc | 3280.28 | kPa | Joback Method |
| tb | 455.90 | K | Joback Method |
| tc | 623.65 | K | Joback Method |
| tf | 224.39 | K | Joback Method |
| vc | 0.426 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 231.48 | J/mol×K | 455.90 | Joback Method |
| cpg | 278.34 | J/mol×K | 595.69 | Joback Method |
| cpg | 269.79 | J/mol×K | 567.74 | Joback Method |

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|---|---|---|---|---|
| cpg | 260.84 | J/mol×K | 539.78 | Joback Method |
| cpg | 251.49 | J/mol×K | 511.82 | Joback Method |
| cpg | 241.71 | J/mol×K | 483.86 | Joback Method |
| cpg | 286.52 | J/mol×K | 623.65 | Joback Method |
| dvisc | 0.0001710 | Pa×s | 455.90 | Joback Method |
| dvisc | 0.0002936 | Pa×s | 417.31 | Joback Method |
| dvisc | 0.0005629 | Pa×s | 378.73 | Joback Method |
| dvisc | 0.0012506 | Pa×s | 340.14 | Joback Method |
| dvisc | 0.0034085 | Pa×s | 301.56 | Joback Method |
| dvisc | 0.0124675 | Pa×s | 262.97 | Joback Method |
| dvisc | 0.0712349 | Pa×s | 224.39 | Joback Method |

# Correlations

| Information | Value |
|---|---|
| Property code | pvap |
| Equation | ln(Pvp) = A + B/(T + C) |
| Coeff. A | 1.59944e+01 |
| Coeff. B | -4.38019e+03 |
| Coeff. C | -6.68480e+01 |
| Temperature range (K), min. | 345.72 |
| Temperature range (K), max. | 476.87 |

# Sources

**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=C6191715&Units=SI

**The Yaws Handbook of Vapor Pressure:** https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# 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 |
| **pvap:** | Vapor pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |