# 2-Pentene, 2-methoxy-4-methyl-, (Z)-

**Inchi:** InChI=1S/C7H14O/c1-6(2)5-7(3)8-4/h5-6H,1-4H3/b7-5-
**InchiKey:** VUVRRRJAGXVQQZ-ALCCZGGFSA-N
**Formula:** C7H14O
**SMILES:** COC(C)=CC(C)C
**Mol. weight [g/mol]:** 114.19
**CAS:** 53119-73-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -27.71 | kJ/mol | Joback Method |
| hf | -217.88 | kJ/mol | Joback Method |
| hfus | 10.44 | kJ/mol | Joback Method |
| hvap | 33.24 | kJ/mol | Joback Method |
| log10ws | -1.95 | | Crippen Method |
| logp | 2.193 | | Crippen Method |
| mcvol | 111.060 | ml/mol | McGowan Method |
| pc | 2947.28 | kPa | Joback Method |
| tb | 385.58 | K | Joback Method |
| tc | 566.06 | K | Joback Method |
| tf | 156.84 | K | Joback Method |
| vc | 0.420 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 203.89 | J/mol×K | 385.58 | Joback Method |
| cpg | 215.76 | J/mol×K | 415.66 | Joback Method |
| cpg | 227.17 | J/mol×K | 445.74 | Joback Method |
| cpg | 238.14 | J/mol×K | 475.82 | Joback Method |
| cpg | 248.67 | J/mol×K | 505.90 | Joback Method |
| cpg | 258.77 | J/mol×K | 535.98 | Joback Method |
| cpg | 268.46 | J/mol×K | 566.06 | Joback Method |

# Sources

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|---|---|
| **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=C53119736&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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |