# 4,4-Dimethyl-2-methoxy-1-pentene

**Other names:** 4,4-Dimethyl-2-methoxy-1-pentene
**Inchi:** InChI=1S/C8H16O/c1-7(9-5)6-8(2,3)4/h1,6H2,2-5H3
**InchiKey:** LSHQWPNTYWCQMU-UHFFFAOYSA-N
**Formula:** C8H16O
**SMILES:** C=C(CC(C)(C)C)OC
**Mol. weight [g/mol]:** 128.21

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -254.50 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 7.66 | kJ/mol | Joback Method |
| hvap | 37.96 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.38 | eV | Cheméo Relay (1.0) |
| logp | 2.583 | | Crippen Method |
| mcvol | 125.150 | ml/mol | McGowan Method |
| tb | 385.79 | K | Cheméo Relay (1.0) |
| tf | 182.96 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 243.78 | J/mol×K | 398.19 | Joback Method |
| cpg | 257.62 | J/mol×K | 428.47 | Joback Method |
| cpg | 270.82 | J/mol×K | 458.75 | Joback Method |
| cpg | 283.42 | J/mol×K | 489.02 | Joback Method |
| cpg | 295.43 | J/mol×K | 519.30 | Joback Method |
| cpg | 306.87 | J/mol×K | 549.58 | Joback Method |
| cpg | 317.76 | J/mol×K | 579.86 | Joback Method |

## Sources

| | |
|---|---|
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C66017252&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **ie:** | Ionization energy |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |
| **tf:** | Normal melting (fusion) point |