# 4-methylcara-3(10),4-diene

**Inchi:** InChI=1S/C11H16/c1-7-5-9-10(6-8(7)2)11(9,3)4/h6,9-10H,1,5H2,2-4H3
**InchiKey:** VCNGYUPLXRXURU-UHFFFAOYSA-N
**Formula:** C11H16
**SMILES:** C=C1CC2C(C=C1C)C2(C)C
**Mol. weight [g/mol]:** 148.24

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 211.35 | kJ/mol | Joback Method |
| hf | -5.48 | kJ/mol | Joback Method |
| hfus | 12.86 | kJ/mol | Joback Method |
| hvap | 39.73 | kJ/mol | Joback Method |
| log10ws | -3.20 | | Crippen Method |
| logp | 3.165 | | Crippen Method |
| mcvol | 135.530 | ml/mol | McGowan Method |
| pc | 2665.27 | kPa | Joback Method |
| rinpol | 1076.00 | | NIST Webbook |
| tb | 467.70 | K | Joback Method |
| tc | 676.02 | K | Joback Method |
| tf | 292.71 | K | Joback Method |
| vc | 0.524 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 303.38 | J/mol×K | 467.70 | Joback Method |
| cpg | 320.63 | J/mol×K | 502.42 | Joback Method |
| cpg | 336.66 | J/mol×K | 537.14 | Joback Method |
| cpg | 351.59 | J/mol×K | 571.86 | Joback Method |
| cpg | 365.56 | J/mol×K | 606.58 | Joback Method |
| cpg | 378.68 | J/mol×K | 641.30 | Joback Method |
| cpg | 391.10 | J/mol×K | 676.02 | 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=R492183&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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |