# Cyclohexene, 1-methyl-5-(1-methylethenyl)-

**Other names:** 1-methyl-5-(1-methylethenyl)cyclohexene
**Inchi:** InChI=1S/C10H16/c1-8(2)10-6-4-5-9(3)7-10/h5,10H,1,4,6-7H2,2-3H3
**InchiKey:** JWQKMEKSFPNAIB-UHFFFAOYSA-N
**Formula:** C10H16
**SMILES:** C=C(C)C1CCC=C(C)C1
**Mol. weight [g/mol]:** 136.24
**CAS:** 13898-73-2

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 11.73 | kJ/mol | Joback Method |
| hvap | 49.26 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.66 | eV | Cheméo Relay (1.0) |
| log10ws | -4.01 | | Cheméo Relay (1.0) |
| logp | 3.309 | | Crippen Method |
| mcvol | 132.300 | ml/mol | McGowan Method |
| tb | 451.56 | K | Cheméo Relay (1.0) |
| tf | 188.87 | K | Cheméo Relay (1.0) |

## Correlations

| Information | Value |
|---|---|
| Property code | cpg |
| Equation | $Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$ |
| Y unit | J/mol×K |
| Coeff. A | -5.24100e+01 |
| Coeff. B | 9.40340e-01 |
| Coeff. C | -5.46640e-04 |
| Coeff. D | 1.15900e-07 |
| Coeff. E | 0.00000e+00 |
| Basis | predicted |
| Temperature range (K), min. | 273.00 |
| Temperature range (K), max. | 1000.00 |

# Sources

| | |
|---|---|
| **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):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C13898732&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |
| **tf:** | Normal melting (fusion) point |

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