# «delta»-Fenchene

**Inchi:** InChI=1S/C10H16/c1-9(2)7-10(3)5-4-8(9)6-10/h4-5,8H,6-7H2,1-3H3
**InchiKey:** FUIDRYCKEXJNOK-UHFFFAOYSA-N
**Formula:** C10H16
**SMILES:** CC12C=CC(C1)C(C)(C)C2
**Mol. weight [g/mol]:** 136.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 153.99 | kJ/mol | Joback Method |
| hf | -42.37 | kJ/mol | Joback Method |
| hfus | 5.52 | kJ/mol | Joback Method |
| hvap | 35.53 | kJ/mol | Joback Method |
| log10ws | -2.93 | | Crippen Method |
| logp | 2.999 | | Crippen Method |
| mcvol | 125.740 | ml/mol | McGowan Method |
| pc | 3086.42 | kPa | Joback Method |
| rinpol | 869.00 | | NIST Webbook |
| rinpol | 869.00 | | NIST Webbook |
| rinpol | 864.00 | | NIST Webbook |
| tb | 440.92 | K | Joback Method |
| tc | 658.12 | K | Joback Method |
| tf | 279.14 | K | Joback Method |
| vc | 0.482 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 273.54 | J/mol×K | 440.92 | Joback Method |
| cpg | 292.70 | J/mol×K | 477.12 | Joback Method |
| cpg | 310.04 | J/mol×K | 513.32 | Joback Method |
| cpg | 325.79 | J/mol×K | 549.52 | Joback Method |
| cpg | 340.20 | J/mol×K | 585.72 | Joback Method |
| cpg | 353.50 | J/mol×K | 621.92 | Joback Method |
| cpg | 365.95 | J/mol×K | 658.12 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R299984&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# 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 |