

Tricyclo[4.3.1.0(1,6)deca-3-ene

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|-----------------------------|---|
| Inchi: | InChI=1S/C10H14/c1-2-5-10-7-3-6-9(10,4-1)8-10/h1-2H,3-8H2 |
| InchiKey: | YQOCENFGLUWWPG-UHFFFAOYSA-N |
| Formula: | C10H14 |
| SMILES: | C1=CCC23CCCC2(C1)C3 |
| Mol. weight [g/mol]: | 134.22 |
| CAS: | 17048-59-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 230.16 | kJ/mol | Joback Method |
| hf | 95.80 | kJ/mol | NIST Webbook |
| hfus | 1.52 | kJ/mol | Joback Method |
| hvap | 36.06 | kJ/mol | Joback Method |
| log10ws | -3.06 | | Crippen Method |
| logp | 2.897 | | Crippen Method |
| mcvol | 114.880 | ml/mol | McGowan Method |
| pc | 3886.79 | kPa | Joback Method |
| tb | 457.00 | K | Joback Method |
| tc | 693.85 | K | Joback Method |
| tf | 305.56 | K | Joback Method |
| vc | 0.442 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 259.06 | J/mol×K | 457.00 | Joback Method |
| cpg | 278.73 | J/mol×K | 496.48 | Joback Method |
| cpg | 296.07 | J/mol×K | 535.95 | Joback Method |
| cpg | 311.46 | J/mol×K | 575.43 | Joback Method |
| cpg | 325.26 | J/mol×K | 614.90 | Joback Method |
| cpg | 337.85 | J/mol×K | 654.38 | Joback Method |
| cpg | 349.60 | J/mol×K | 693.85 | 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=C17048598&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |

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