

Cadinane-b

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|-----------------------------|--|
| Inchi: | InChI=1S/C15H28/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h10-15H,5-9H2,1-4H3 |
| InchiKey: | FZZNNPQZDRVKLU-UHFFFAOYSA-N |
| Formula: | C15H28 |
| SMILES: | CC1CCC2C(C)CCC(C(C)C)C2C1 |
| Mol. weight [g/mol]: | 208.38 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 122.95 | kJ/mol | Joback Method |
| hf | -298.27 | kJ/mol | Joback Method |
| hfus | 22.17 | kJ/mol | Joback Method |
| hvap | 48.18 | kJ/mol | Joback Method |
| log10ws | -4.44 | | Crippen Method |
| logp | 4.741 | | Crippen Method |
| mcvol | 200.490 | ml/mol | McGowan Method |
| pc | 1752.14 | kPa | Joback Method |
| rinpol | 1456.00 | | NIST Webbook |
| rinpol | 1457.00 | | NIST Webbook |
| tb | 558.71 | K | Joback Method |
| tc | 767.90 | K | Joback Method |
| tf | 252.89 | K | Joback Method |
| vc | 0.749 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 540.96 | J/molxK | 558.71 | Joback Method |
| cpg | 659.45 | J/molxK | 733.03 | Joback Method |
| cpg | 638.49 | J/molxK | 698.17 | Joback Method |
| cpg | 616.21 | J/molxK | 663.30 | Joback Method |
| cpg | 592.55 | J/molxK | 628.44 | Joback Method |
| cpg | 567.48 | J/molxK | 593.57 | Joback Method |
| cpg | 679.13 | J/molxK | 767.90 | Joback Method |
| dvisc | 0.0004163 | Paxs | 558.71 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0004840 | Paxs | 507.74 | Joback Method |
| dvisc | 0.0005821 | Paxs | 456.77 | Joback Method |
| dvisc | 0.0007332 | Paxs | 405.80 | Joback Method |
| dvisc | 0.0009869 | Paxs | 354.83 | Joback Method |
| dvisc | 0.0014675 | Paxs | 303.86 | Joback Method |
| dvisc | 0.0025609 | Paxs | 252.89 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=R306502&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| 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 |

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