

Heptacosane, 9,19-dimethyl

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|-----------------------------|---|
| Inchi: | InChI=1S/C29H60/c1-5-7-9-11-16-20-24-28(3)26-22-18-14-13-15-19-23-27-29(4)25-21-1 |
| InchiKey: | NBDDGZGFASDZOI-UHFFFAOYSA-N |
| Formula: | C29H60 |
| SMILES: | CCCCCCCC(C)CCCCCCCC(C)CCCCCCC |
| Mol. weight [g/mol]: | 408.79 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 188.42 | kJ/mol | Joback Method |
| hf | -652.45 | kJ/mol | Joback Method |
| hfus | 63.82 | kJ/mol | Joback Method |
| hvap | 79.37 | kJ/mol | Joback Method |
| log10ws | -11.48 | | Crippen Method |
| logp | 11.271 | | Crippen Method |
| mcvol | 419.470 | ml/mol | McGowan Method |
| pc | 629.40 | kPa | Joback Method |
| rinpola | 2765.00 | | NIST Webbook |
| tb | 862.04 | K | Joback Method |
| tc | 1057.60 | K | Joback Method |
| tf | 386.59 | K | Joback Method |
| vc | 1.647 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1415.45 | J/molxK | 862.04 | Joback Method |
| cpg | 1441.54 | J/molxK | 894.63 | Joback Method |
| cpg | 1466.21 | J/molxK | 927.23 | Joback Method |
| cpg | 1489.54 | J/molxK | 959.82 | Joback Method |
| cpg | 1511.59 | J/molxK | 992.41 | Joback Method |
| cpg | 1532.42 | J/molxK | 1025.01 | Joback Method |
| cpg | 1552.12 | J/molxK | 1057.60 | Joback Method |
| dvisc | 0.0020179 | Paxs | 386.59 | Joback Method |
| dvisc | 0.0005120 | Paxs | 465.83 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001936 | Paxs | 545.07 | Joback Method |
| dvisc | 0.0000937 | Paxs | 624.31 | Joback Method |
| dvisc | 0.0000534 | Paxs | 703.56 | Joback Method |
| dvisc | 0.0000341 | Paxs | 782.80 | Joback Method |
| dvisc | 0.0000236 | Paxs | 862.04 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R555214&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 |
| 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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