

5,13-dimethylheptadecane

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C19H40/c1-5-7-14-18(3)16-12-10-9-11-13-17-19(4)15-8-6-2/h18-19H,5-17H2,1 |
| InchiKey: | JJVRKPCOWREZIG-UHFFFAOYSA-N |
| Formula: | C19H40 |
| SMILES: | CCCC(C)CCCCCCCC(C)CCCC |
| Mol. weight [g/mol]: | 268.52 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 104.22 | kJ/mol | Joback Method |
| hf | -446.05 | kJ/mol | Joback Method |
| hfus | 37.92 | kJ/mol | Joback Method |
| hvap | 57.11 | kJ/mol | Joback Method |
| log10ws | -7.29 | | Crippen Method |
| logp | 7.370 | | Crippen Method |
| mcvol | 278.570 | ml/mol | McGowan Method |
| pc | 1092.10 | kPa | Joback Method |
| rinsol | 1804.00 | | NIST Webbook |
| tb | 633.24 | K | Joback Method |
| tc | 796.51 | K | Joback Method |
| tf | 273.89 | K | Joback Method |
| vc | 1.087 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 782.01 | J/molxK | 633.24 | Joback Method |
| cpg | 803.08 | J/molxK | 660.45 | Joback Method |
| cpg | 823.28 | J/molxK | 687.66 | Joback Method |
| cpg | 842.63 | J/molxK | 714.87 | Joback Method |
| cpg | 861.15 | J/molxK | 742.09 | Joback Method |
| cpg | 878.88 | J/molxK | 769.30 | Joback Method |
| cpg | 895.83 | J/molxK | 796.51 | Joback Method |
| dvisc | 0.0085960 | Paxs | 273.89 | Joback Method |
| dvisc | 0.0020674 | Paxs | 333.78 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0007671 | Paxs | 393.67 | Joback Method |
| dvisc | 0.0003698 | Paxs | 453.56 | Joback Method |
| dvisc | 0.0002114 | Paxs | 513.46 | Joback Method |
| dvisc | 0.0001358 | Paxs | 573.35 | Joback Method |
| dvisc | 0.0000949 | Paxs | 633.24 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R273680&Units=SI |
| 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 |

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 |

Latest version available from:

<https://www.chemeo.com/cid/73-948-9/5-13-dimethylheptadecane.pdf>

Generated by Cheméo on 2024-05-01 08:39:42.202925172 +0000 UTC m=+16842031.123502487.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.