

5,5,13,13-Tetraethylheptadecane

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| Inchi: | InChI=1S/C25H52/c1-7-13-20-24(9-3,10-4)22-18-16-15-17-19-23-25(11-5,12-6)21-14-8-2 |
| InchiKey: | ZJANNPIATDOOLP-UHFFFAOYSA-N |
| Formula: | C25H52 |
| SMILES: | CCCC(CC)(CC)CCCCCCCC(CC)(CC)CCCC |
| Mol. weight [g/mol]: | 352.68 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 165.30 | kJ/mol | Joback Method |
| hf | -576.83 | kJ/mol | Joback Method |
| hfus | 45.68 | kJ/mol | Joback Method |
| hvap | 68.65 | kJ/mol | Joback Method |
| log10ws | -9.80 | | Crippen Method |
| logp | 9.710 | | Crippen Method |
| mvol | 363.110 | ml/mol | McGowan Method |
| pc | 780.25 | kPa | Joback Method |
| rinpol | 2330.00 | | NIST Webbook |
| rinpol | 2330.00 | | NIST Webbook |
| tb | 764.94 | K | Joback Method |
| tc | 941.10 | K | Joback Method |
| tf | 376.35 | K | Joback Method |
| vc | 1.413 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1153.01 | J/molxK | 764.94 | Joback Method |
| cpg | 1176.37 | J/molxK | 794.30 | Joback Method |
| cpg | 1198.60 | J/molxK | 823.66 | Joback Method |
| cpg | 1219.77 | J/molxK | 853.02 | Joback Method |
| cpg | 1239.94 | J/molxK | 882.38 | Joback Method |
| cpg | 1259.18 | J/molxK | 911.74 | Joback Method |
| cpg | 1277.54 | J/molxK | 941.10 | Joback Method |
| dvisc | 0.0023310 | Paxs | 376.35 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0006833 | Paxs | 441.12 | Joback Method |
| dvisc | 0.0002742 | Paxs | 505.88 | Joback Method |
| dvisc | 0.0001354 | Paxs | 570.64 | Joback Method |
| dvisc | 0.0000772 | Paxs | 635.41 | Joback Method |
| dvisc | 0.0000488 | Paxs | 700.17 | Joback Method |
| dvisc | 0.0000334 | Paxs | 764.94 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R415433&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 |

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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