

Pentadecane, 6-propyl

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|-----------------------------|---|
| Inchi: | InChI=1S/C18H38/c1-4-7-9-10-11-12-14-17-18(15-6-3)16-13-8-5-2/h18H,4-17H2,1-3H3 |
| InchiKey: | VUSSLJTXVNVFMF-UHFFFAOYSA-N |
| Formula: | C18H38 |
| SMILES: | CCCCCCCCC(CCC)CCCC |
| Mol. weight [g/mol]: | 254.49 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 98.24 | kJ/mol | Joback Method |
| hf | -420.13 | kJ/mol | Joback Method |
| hfus | 38.85 | kJ/mol | Joback Method |
| hvap | 55.27 | kJ/mol | Joback Method |
| log10ws | -7.12 | | Crippen Method |
| logp | 7.124 | | Crippen Method |
| mvol | 264.480 | ml/mol | McGowan Method |
| pc | 1158.50 | kPa | Joback Method |
| rinpol | 1692.00 | | NIST Webbook |
| rinpol | 1692.00 | | NIST Webbook |
| tb | 610.80 | K | Joback Method |
| tc | 771.74 | K | Joback Method |
| tf | 277.62 | K | Joback Method |
| vc | 1.038 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 723.79 | J/molxK | 610.80 | Joback Method |
| cpg | 744.17 | J/molxK | 637.62 | Joback Method |
| cpg | 763.72 | J/molxK | 664.45 | Joback Method |
| cpg | 782.48 | J/molxK | 691.27 | Joback Method |
| cpg | 800.46 | J/molxK | 718.09 | Joback Method |
| cpg | 817.70 | J/molxK | 744.91 | Joback Method |
| cpg | 834.20 | J/molxK | 771.74 | Joback Method |
| dvisc | 0.0063506 | Paxs | 277.62 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0018624 | Paxs | 333.15 | Joback Method |
| dvisc | 0.0007754 | Paxs | 388.68 | Joback Method |
| dvisc | 0.0004019 | Paxs | 444.21 | Joback Method |
| dvisc | 0.0002411 | Paxs | 499.74 | Joback Method |
| dvisc | 0.0001602 | Paxs | 555.27 | Joback Method |
| dvisc | 0.0001146 | Paxs | 610.80 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R9571&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 |

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