

Nonadecane, 5-propyl

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|-----------------------------|---|
| Inchi: | InChI=1S/C22H46/c1-4-7-9-10-11-12-13-14-15-16-17-18-21-22(19-6-3)20-8-5-2/h22H,4- |
| InchiKey: | VFMBOKBPKGWBTA-UHFFFAOYSA-N |
| Formula: | C22H46 |
| SMILES: | CCCCCCCCCCCCCCC(CCC)CCCC |
| Mol. weight [g/mol]: | 310.60 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 131.92 | kJ/mol | Joback Method |
| hf | -502.69 | kJ/mol | Joback Method |
| hfus | 49.21 | kJ/mol | Joback Method |
| hvap | 64.18 | kJ/mol | Joback Method |
| log10ws | -8.79 | | Crippen Method |
| logp | 8.684 | | Crippen Method |
| mcvol | 320.840 | ml/mol | McGowan Method |
| pc | 906.15 | kPa | Joback Method |
| rinpol | 2108.00 | | NIST Webbook |
| rinpol | 2108.00 | | NIST Webbook |
| tb | 702.32 | K | Joback Method |
| tc | 867.26 | K | Joback Method |
| tf | 322.70 | K | Joback Method |
| vc | 1.262 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 962.39 | J/molxK | 702.32 | Joback Method |
| cpg | 984.38 | J/molxK | 729.81 | Joback Method |
| cpg | 1005.42 | J/molxK | 757.30 | Joback Method |
| cpg | 1025.55 | J/molxK | 784.79 | Joback Method |
| cpg | 1044.78 | J/molxK | 812.28 | Joback Method |
| cpg | 1063.16 | J/molxK | 839.77 | Joback Method |
| cpg | 1080.72 | J/molxK | 867.26 | Joback Method |
| dvisc | 0.0040182 | Paxs | 322.70 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0011754 | Paxs | 385.97 | Joback Method |
| dvisc | 0.0004861 | Paxs | 449.24 | Joback Method |
| dvisc | 0.0002500 | Paxs | 512.51 | Joback Method |
| dvisc | 0.0001488 | Paxs | 575.78 | Joback Method |
| dvisc | 0.0000982 | Paxs | 639.05 | Joback Method |
| dvisc | 0.0000698 | Paxs | 702.32 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=R48104&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

| | |
|----------------------------|---|
| cp_g: | 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: | Log ₁₀ 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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<https://www.chemeo.com/cid/75-804-6/Nonadecane-5-propyl.pdf>

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