

1-Nonadecyne

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|-----------------------------|---|
| Inchi: | InChI=1S/C19H36/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h1H,4-19H2,2H3 |
| InchiKey: | KOGJOFWBMIQBCC-UHFFFAOYSA-N |
| Formula: | C19H36 |
| SMILES: | C#CCCCCCCCCCCCCCCCC |
| Mol. weight [g/mol]: | 264.49 |
| CAS: | 26186-01-6 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-----------|----------------------|----------------|
| af | 0.7350 | | KDB |
| gf | 332.17 | kJ/mol | Joback Method |
| hf | -143.59 | kJ/mol | Joback Method |
| hfus | 47.94 | kJ/mol | Joback Method |
| hvap | 57.75 | kJ/mol | Joback Method |
| log10ws | -7.57 | | Crippen Method |
| logp | 6.881 | | Crippen Method |
| mcpvol | 269.970 | ml/mol | McGowan Method |
| pc | 1190.00 | kPa | KDB |
| tb | 600.20 | K | KDB |
| tc | 758.90 | K | KDB |
| tf | 306.00 | K | KDB |
| vc | 1.062 | m ³ /kmol | KDB |
| zc | 0.2001920 | | KDB |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 734.76 | J/mol×K | 624.24 | Joback Method |
| cpg | 754.48 | J/mol×K | 651.76 | Joback Method |
| cpg | 773.37 | J/mol×K | 679.29 | Joback Method |
| cpg | 791.46 | J/mol×K | 706.81 | Joback Method |
| cpg | 808.77 | J/mol×K | 734.34 | Joback Method |
| cpg | 825.33 | J/mol×K | 761.86 | Joback Method |
| cpg | 841.18 | J/mol×K | 789.39 | Joback Method |

Sources

| | |
|------------------------|---|
| KDB: | https://www.therc.org/files/research/kdb/mol/mol444.mol |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C26186016&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

| | |
|-----------------|---|
| af: | Acentric Factor |
| cpg: | Ideal gas heat capacity |
| 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 |
| hvapt: | Enthalpy of vaporization at a given temperature |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |
| zc: | Critical Compressibility |

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