# 2-Methylnonacosane

**Other names:** Nonacosane, 2-methyl-
**Inchi:** InChI=1S/C30H62/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26
**InchiKey:** NLAGNNORBYGNAV-UHFFFAOYSA-N
**Formula:** C30H62
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)C
**Mol. weight [g/mol]:** 422.81
**CAS:** 1560-75-4

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 199.28 | kJ/mol | Joback Method |
| hf | -667.81 | kJ/mol | Joback Method |
| hfus | 69.93 | kJ/mol | Joback Method |
| hvap | 81.99 | kJ/mol | Joback Method |
| log10ws | -12.14 | | Crippen Method |
| logp | 11.805 | | Crippen Method |
| mcvol | 433.560 | ml/mol | McGowan Method |
| pc | 597.80 | kPa | Joback Method |
| rinpol | 2960.60 | | NIST Webbook |
| rinpol | 2958.00 | | NIST Webbook |
| rinpol | 2962.00 | | NIST Webbook |
| rinpol | 2965.00 | | NIST Webbook |
| rinpol | 2965.70 | | NIST Webbook |
| rinpol | 2962.00 | | NIST Webbook |
| rinpol | 2962.00 | | NIST Webbook |
| rinpol | 2958.00 | | NIST Webbook |
| tb | 885.36 | K | Joback Method |
| tc | 1090.03 | K | Joback Method |
| tf | 412.86 | K | Joback Method |
| vc | 1.710 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|

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|---|---|---|---|---|
| cpg | 1623.76 | J/mol×K | 1090.03 | Joback Method |
| cpg | 1603.48 | J/mol×K | 1055.92 | Joback Method |
| cpg | 1582.00 | J/mol×K | 1021.80 | Joback Method |
| cpg | 1559.23 | J/mol×K | 987.69 | Joback Method |
| cpg | 1535.09 | J/mol×K | 953.58 | Joback Method |
| cpg | 1509.50 | J/mol×K | 919.47 | Joback Method |
| cpg | 1482.38 | J/mol×K | 885.36 | Joback Method |
| dvisc | 0.0013422 | Pa×s | 412.86 | Joback Method |
| dvisc | 0.0000222 | Pa×s | 885.36 | Joback Method |
| dvisc | 0.0000315 | Pa×s | 806.61 | Joback Method |
| dvisc | 0.0000482 | Pa×s | 727.86 | Joback Method |
| dvisc | 0.0000818 | Pa×s | 649.11 | Joback Method |
| dvisc | 0.0001607 | Pa×s | 570.36 | Joback Method |
| dvisc | 0.0003919 | Pa×s | 491.61 | Joback Method |
| hvapt | 116.80 | kJ/mol | 589.50 | NIST Webbook |

# Sources

**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

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C1560754&Units=SI

# 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
**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
**rinpol:** Non-polar retention indices

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|---|---|
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |