# 9,15,19-trimethylnonacosane

**Inchi:** InChI=1S/C32H66/c1-6-8-10-12-14-15-17-20-25-31(4)28-23-29-32(5)27-22-18-21-26-30(
**InchiKey:** CPUCSBOSQHNLAK-UHFFFAOYSA-N
**Formula:** C32H66
**SMILES:** CCCCCCCCCCC(C)CCCC(C)CCCCCC(C)CCCCCCCC
**Mol. weight [g/mol]:** 450.87

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 211.24 | kJ/mol | Joback Method |
| hf | -719.65 | kJ/mol | Joback Method |
| hfus | 68.07 | kJ/mol | Joback Method |
| hvap | 85.66 | kJ/mol | Joback Method |
| log10ws | -12.49 | | Crippen Method |
| logp | 12.297 | | Crippen Method |
| mcvol | 461.740 | ml/mol | McGowan Method |
| pc | 549.49 | kPa | Joback Method |
| rinpol | 2987.00 | | NIST Webbook |
| rinpol | 2987.00 | | NIST Webbook |
| tb | 930.24 | K | Joback Method |
| tc | 1150.49 | K | Joback Method |
| tf | 405.40 | K | Joback Method |
| vc | 1.810 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1618.98 | J/mol×K | 930.24 | Joback Method |
| cpg | 1647.60 | J/mol×K | 966.95 | Joback Method |
| cpg | 1674.45 | J/mol×K | 1003.66 | Joback Method |
| cpg | 1699.63 | J/mol×K | 1040.36 | Joback Method |
| cpg | 1723.25 | J/mol×K | 1077.07 | Joback Method |
| cpg | 1745.43 | J/mol×K | 1113.78 | Joback Method |
| cpg | 1766.27 | J/mol×K | 1150.49 | Joback Method |
| dvisc | 0.0016243 | Pa×s | 405.40 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0003607 | Pa×s | 492.87 | Joback Method |
| dvisc | 0.0001261 | Pa×s | 580.35 | Joback Method |
| dvisc | 0.0000581 | Pa×s | 667.82 | Joback Method |
| dvisc | 0.0000320 | Pa×s | 755.29 | Joback Method |
| dvisc | 0.0000199 | Pa×s | 842.77 | Joback Method |
| dvisc | 0.0000136 | Pa×s | 930.24 | Joback Method |

# Sources

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|---|---|
| **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=R280727&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 |
| **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 |