# 7,19-dimethyltritriacontane

**Inchi:** InChI=1S/C35H72/c1-5-7-9-11-12-13-14-15-17-20-23-28-32-35(4)33-29-25-22-19-16-18-
**InchiKey:** RGEACQPFWDXJAF-UHFFFAOYSA-N
**Formula:** C35H72
**SMILES:** CCCCCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCCCCC
**Mol. weight [g/mol]:** 492.95

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 238.94 | kJ/mol | Joback Method |
| hf | -776.29 | kJ/mol | Joback Method |
| hfus | 79.36 | kJ/mol | Joback Method |
| hvap | 92.73 | kJ/mol | Joback Method |
| log10ws | -13.99 | | Crippen Method |
| logp | 13.611 | | Crippen Method |
| mcvol | 504.010 | ml/mol | McGowan Method |
| pc | 480.50 | kPa | Joback Method |
| rinpol | 3370.00 | | NIST Webbook |
| rinpol | 3370.00 | | NIST Webbook |
| tb | 999.32 | K | Joback Method |
| tc | 1260.43 | K | Joback Method |
| tf | 454.21 | K | Joback Method |
| vc | 1.984 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1825.56 | J/mol×K | 999.32 | Joback Method |
| cpg | 1967.79 | J/mol×K | 1216.91 | Joback Method |
| cpg | 1943.25 | J/mol×K | 1173.39 | Joback Method |
| cpg | 1916.96 | J/mol×K | 1129.87 | Joback Method |
| cpg | 1888.72 | J/mol×K | 1086.36 | Joback Method |
| cpg | 1858.31 | J/mol×K | 1042.84 | Joback Method |
| cpg | 1990.77 | J/mol×K | 1260.43 | Joback Method |
| dvisc | 0.0000093 | Pa×s | 999.32 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000134 | Pa×s | 908.47 | Joback Method |
| dvisc | 0.0000210 | Pa×s | 817.62 | Joback Method |
| dvisc | 0.0000368 | Pa×s | 726.76 | Joback Method |
| dvisc | 0.0000760 | Pa×s | 635.91 | Joback Method |
| dvisc | 0.0001994 | Pa×s | 545.06 | Joback Method |
| dvisc | 0.0007702 | Pa×s | 454.21 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R272632&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 |
| **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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