# 14-Heptatricosene

**Inchi:** InChI=1S/C37H74/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-35-37-36-34-32-30-
**InchiKey:** GYFLIHBWBFFBDM-ORIPQNMZSA-N
**Formula:** C37H74
**SMILES:** CCCCCCCCCCCCCC=CCCCCCCCCCCCCCCCCCCCCCC
**Mol. weight [g/mol]:** 518.98

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 340.88 | kJ/mol | Joback Method |
| hf | -689.79 | kJ/mol | Joback Method |
| hfus | 91.79 | kJ/mol | Joback Method |
| hvap | 97.91 | kJ/mol | Joback Method |
| log10ws | -15.16 | | Crippen Method |
| logp | 14.456 | | Crippen Method |
| mcvol | 527.890 | ml/mol | McGowan Method |
| pc | 449.25 | kPa | Joback Method |
| rinpol | 3672.00 | | NIST Webbook |
| tb | 1050.12 | K | Joback Method |
| tc | 1348.55 | K | Joback Method |
| tf | 501.67 | K | Joback Method |
| vc | 2.087 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1937.29 | J/mol×K | 1050.12 | Joback Method |
| cpg | 1973.83 | J/mol×K | 1099.86 | Joback Method |
| cpg | 2007.89 | J/mol×K | 1149.60 | Joback Method |
| cpg | 2039.83 | J/mol×K | 1199.33 | Joback Method |
| cpg | 2069.99 | J/mol×K | 1249.07 | Joback Method |
| cpg | 2098.73 | J/mol×K | 1298.81 | Joback Method |
| cpg | 2126.40 | J/mol×K | 1348.55 | Joback Method |
| dvisc | 0.0003623 | Pa×s | 501.67 | Joback Method |
| dvisc | 0.0001138 | Pa×s | 593.08 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000487 | Pa×s | 684.49 | Joback Method |
| dvisc | 0.0000254 | Pa×s | 775.89 | Joback Method |
| dvisc | 0.0000152 | Pa×s | 867.30 | Joback Method |
| dvisc | 0.0000101 | Pa×s | 958.71 | Joback Method |
| dvisc | 0.0000071 | Pa×s | 1050.12 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R608487&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

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|---|---|
| **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 |