# Heneicosane, 2,6,10,14,19-pentamethyl

**Inchi:** InChI=1S/C26H54/c1-8-23(4)15-9-10-16-24(5)18-12-20-26(7)21-13-19-25(6)17-11-14-22
**InchiKey:** CGDVHTWXIKBXLL-UHFFFAOYSA-N
**Formula:** C26H54
**SMILES:** CCC(C)CCCCC(C)CCCC(C)CCCC(C)CCCC(C)C
**Mol. weight [g/mol]:** 366.71

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 155.84 | kJ/mol | Joback Method |
| hf | -606.37 | kJ/mol | Joback Method |
| hfus | 45.48 | kJ/mol | Joback Method |
| hvap | 71.53 | kJ/mol | Joback Method |
| log10ws | -9.50 | | Crippen Method |
| logp | 9.668 | | Crippen Method |
| mcvol | 377.200 | ml/mol | McGowan Method |
| pc | 740.84 | kPa | Joback Method |
| rinpol | 2309.00 | | NIST Webbook |
| tb | 792.08 | K | Joback Method |
| tc | 971.37 | K | Joback Method |
| tf | 307.78 | K | Joback Method |
| vc | 1.462 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1218.23 | J/mol×K | 792.08 | Joback Method |
| cpg | 1242.46 | J/mol×K | 821.96 | Joback Method |
| cpg | 1265.48 | J/mol×K | 851.84 | Joback Method |
| cpg | 1287.34 | J/mol×K | 881.73 | Joback Method |
| cpg | 1308.09 | J/mol×K | 911.61 | Joback Method |
| cpg | 1327.77 | J/mol×K | 941.49 | Joback Method |
| cpg | 1346.42 | J/mol×K | 971.37 | Joback Method |
| dvisc | 0.0100106 | Pa×s | 307.78 | Joback Method |
| dvisc | 0.0013686 | Pa×s | 388.50 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0003710 | Pa×s | 469.21 | Joback Method |
| dvisc | 0.0001476 | Pa×s | 549.93 | Joback Method |
| dvisc | 0.0000743 | Pa×s | 630.65 | Joback Method |
| dvisc | 0.0000437 | Pa×s | 711.36 | Joback Method |
| dvisc | 0.0000287 | Pa×s | 792.08 | Joback Method |

# 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=R213935&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