# 2-(4-methylphenyl)-adamantane

**Inchi:** InChI=1S/C17H22/c1-11-2-4-14(5-3-11)17-15-7-12-6-13(9-15)10-16(17)8-12/h2-5,12-13,
**InchiKey:** IHKADZMLGALVBW-ABKHHGKASA-N
**Formula:** C17H22
**SMILES:** Cc1ccc(C2C3CC4CC(C3)CC2C4)cc1
**Mol. weight [g/mol]:** 226.36

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 349.77 | kJ/mol | Joback Method |
| hf | 2.41 | kJ/mol | Joback Method |
| hfus | 27.89 | kJ/mol | Joback Method |
| hvap | 55.67 | kJ/mol | Joback Method |
| log10ws | -4.78 | | Crippen Method |
| logp | 4.535 | | Crippen Method |
| mcvol | 194.050 | ml/mol | McGowan Method |
| pc | 2094.58 | kPa | Joback Method |
| rinpol | 1892.00 | | NIST Webbook |
| tb | 635.17 | K | Joback Method |
| tc | 871.06 | K | Joback Method |
| tf | 362.11 | K | Joback Method |
| vc | 0.741 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 563.17 | J/mol×K | 635.17 | Joback Method |
| cpg | 664.95 | J/mol×K | 831.75 | Joback Method |
| cpg | 647.42 | J/mol×K | 792.43 | Joback Method |
| cpg | 628.63 | J/mol×K | 753.12 | Joback Method |
| cpg | 608.42 | J/mol×K | 713.80 | Joback Method |
| cpg | 586.65 | J/mol×K | 674.49 | Joback Method |
| cpg | 681.35 | J/mol×K | 871.06 | Joback Method |
| dvisc | 0.0022041 | Pa×s | 635.17 | Joback Method |
| dvisc | 0.0022213 | Pa×s | 589.66 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0022415 | Pa×s | 544.15 | Joback Method |
| dvisc | 0.0022656 | Pa×s | 498.64 | Joback Method |
| dvisc | 0.0022949 | Pa×s | 453.13 | Joback Method |
| dvisc | 0.0023312 | Pa×s | 407.62 | Joback Method |
| dvisc | 0.0023775 | Pa×s | 362.11 | Joback Method |

# Sources

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|---|---|
| **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=R202212&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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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