# 2-isobutylideneadamantane

**Inchi:** InChI=1S/C14H22/c1-9(2)3-14-12-5-10-4-11(7-12)8-13(14)6-10/h3,9-13H,4-8H2,1-2H3/b
**InchiKey:** AJPQLQKXRCBRCK-BNNQUZSASA-N
**Formula:** C14H22
**SMILES:** CC(C)C=C1C2CC3CC(C2)CC1C3
**Mol. weight [g/mol]:** 190.32

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 272.46 | kJ/mol | Joback Method |
| hf | -69.64 | kJ/mol | Joback Method |
| hfus | 22.19 | kJ/mol | Joback Method |
| hvap | 46.76 | kJ/mol | Joback Method |
| log10ws | -4.01 | | Crippen Method |
| logp | 4.025 | | Crippen Method |
| mcvol | 171.240 | ml/mol | McGowan Method |
| pc | 2177.49 | kPa | Joback Method |
| rinpol | 1402.00 | | NIST Webbook |
| rinpol | 1370.00 | | NIST Webbook |
| rinpol | 1381.00 | | NIST Webbook |
| rinpol | 1391.00 | | NIST Webbook |
| ripol | 1554.00 | | NIST Webbook |
| ripol | 1570.00 | | NIST Webbook |
| ripol | 1534.00 | | NIST Webbook |
| tb | 545.74 | K | Joback Method |
| tc | 758.47 | K | Joback Method |
| tf | 288.96 | K | Joback Method |
| vc | 0.658 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 452.44 | J/mol×K | 545.74 | Joback Method |
| cpg | 474.65 | J/mol×K | 581.20 | Joback Method |
| cpg | 495.41 | J/mol×K | 616.65 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 514.82 | J/mol×K | 652.11 | Joback Method |
| cpg | 532.98 | J/mol×K | 687.56 | Joback Method |
| cpg | 550.01 | J/mol×K | 723.02 | Joback Method |
| cpg | 566.01 | J/mol×K | 758.47 | Joback Method |
| dvisc | 0.0013449 | Pa×s | 288.96 | Joback Method |
| dvisc | 0.0013608 | Pa×s | 331.76 | Joback Method |
| dvisc | 0.0013732 | Pa×s | 374.55 | Joback Method |
| dvisc | 0.0013831 | Pa×s | 417.35 | Joback Method |
| dvisc | 0.0013913 | Pa×s | 460.15 | Joback Method |
| dvisc | 0.0013981 | Pa×s | 502.94 | Joback Method |
| dvisc | 0.0014038 | Pa×s | 545.74 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R304571&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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |