2-methyleneadamantane

Inchi: InChI=1S/C11H16/c1-7-10-3-8-2-9(5-10)6-11(7)4-8/h8-11H,1-6H2
InchiKey: JTCQPLINQYIRDZ-UHFFFAOYSA-N
Formula: C11H16
SMILES: C=C1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]: 148.24

Physical Properties

Property code	Value	Unit	Source
gf	257.26	kJ/mol	Joback Method
hf	5.77	kJ/mol	Joback Method
hfus	16.46	kJ/mol	Joback Method
hvap	39.84	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.999		Crippen Method
mcvol	128.970	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
rinpol	1197.00		NIST Webbook
rinpol	1181.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1173.00		NIST Webbook
ripol	1388.00		NIST Webbook
ripol	1407.00		NIST Webbook
ripol	1429.00		NIST Webbook
tb	470.06	K	Joback Method
tc	682.66	K	Joback Method
tf	273.47	K	Joback Method
vc	0.497	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.16	J/mol×K	470.06	Joback Method
cpg	323.30	J/mol×K	505.49	Joback Method
cpg	342.08	J/mol×K	540.93	Joback Method

cpg	359.59	J/mol×K	576.36	Joback Method
cpg	375.93	J/mol×K	611.79	Joback Method
cpg	391.17	J/mol×K	647.23	Joback Method
cpg	405.41	J/mol×K	682.66	Joback Method
dvisc	0.0007208	Pa×s	273.47	Joback Method
dvisc	0.0008390	Pa×s	306.24	Joback Method
dvisc	0.0009483	Pa×s	339.00	Joback Method
dvisc	0.0010490	Pa×s	371.76	Joback Method
dvisc	0.0011415	Pa×s	404.53	Joback Method
dvisc	0.0012266	Pa×s	437.29	Joback Method
dvisc	0.0013049	Pa×s	470.06	Joback Method

Sources

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=R304615&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume