2-isopropyladamantane

Inchi: InChI=1S/C13H22/c1-8(2)13-11-4-9-3-10(6-11)7-12(13)5-9/h8-13H,3-7H2,1-2H3/t9-,10?,
InchiKey: GNFZEYQQRJBGMB-VNAIHZQWSA-N
Formula: C13H22
SMILES: CC(C)C1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]: 178.31

Physical Properties

Property code	Value	Unit	Source
gf	210.87	kJ/mol	Joback Method
hf	-145.37	kJ/mol	Joback Method
hfus	20.35	kJ/mol	Joback Method
hvap	43.44	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.715		Crippen Method
mcvol	161.450	ml/mol	McGowan Method
pc	2248.26	kPa	Joback Method
rinpol	1342.00		NIST Webbook
rinpol	1360.00		NIST Webbook
rinpol	1374.00		NIST Webbook
rinpol	1349.00		NIST Webbook
rinpol	1386.00		NIST Webbook
rinpol	1349.00		NIST Webbook
rinpol	1333.00		NIST Webbook
rinpol	1386.00		NIST Webbook
rinpol	1317.00		NIST Webbook
rinpol	1333.00		NIST Webbook
rinpol	1342.00		NIST Webbook
rinpol	1317.00		NIST Webbook
rinpol	1333.00		NIST Webbook
rinpol	1349.00		NIST Webbook
ripol	1540.00		NIST Webbook
ripol	1582.00		NIST Webbook
ripol	1561.00		NIST Webbook
ripol	1540.00		NIST Webbook
tb	511.55	K	Joback Method
tc	720.55	K	Joback Method
tf	263.09	K	Joback Method

vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.79	J/mol×K	511.55	Joback Method
cpg	521.24	J/mol×K	685.72	Joback Method
cpg	503.15	J/mol×K	650.88	Joback Method
cpg	483.84	J/mol×K	616.05	Joback Method
cpg	463.24	J/mol×K	581.22	Joback Method
cpg	441.25	J/mol×K	546.38	Joback Method
cpg	538.22	J/mol×K	720.55	Joback Method
dvisc	0.0014927	Pa×s	511.55	Joback Method
dvisc	0.0014280	Pa×s	470.14	Joback Method
dvisc	0.0013545	Pa×s	428.73	Joback Method
dvisc	0.0012704	Pa×s	387.32	Joback Method
dvisc	0.0011733	Pa×s	345.91	Joback Method
dvisc	0.0010605	Pa×s	304.50	Joback Method
dvisc	0.0009284	Pa×s	263.09	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=R134466&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume