2-ethylideneadamantane

Inchi: InChI=1S/C12H18/c1-2-12-10-4-8-3-9(6-10)7-11(12)5-8/h2,8-11H,3-7H2,1H3/b12-2-
InchiKey: DDSATBSDGAPDPM-OIXVIMQBSA-N
Formula: C12H18
SMILES: CC=C1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]: 162.27

Physical Properties

Property code	Value	Unit	Source
gf	258.06	kJ/mol	Joback Method
hf	-23.08	kJ/mol	Joback Method
hfus	20.54	kJ/mol	Joback Method
hvap	42.70	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.389		Crippen Method
mcvol	143.060	ml/mol	McGowan Method
pc	2605.74	kPa	Joback Method
tb	500.42	K	Joback Method
tc	715.33	K	Joback Method
tf	281.42	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.35	J/mol×K	500.42	Joback Method
cpg	373.28	J/mol×K	536.24	Joback Method
cpg	392.78	J/mol×K	572.06	Joback Method
cpg	410.96	J/mol×K	607.87	Joback Method
cpg	427.91	J/mol×K	643.69	Joback Method
cpg	443.74	J/mol×K	679.51	Joback Method
cpg	458.54	J/mol×K	715.33	Joback Method
dvisc	0.0008718	Pa×s	281.42	Joback Method
dvisc	0.0009664	Pa×s	317.92	Joback Method
dvisc	0.0010488	Pa×s	354.42	Joback Method

dvisc	0.0011209	Pa×s	390.92	Joback Method
dvisc	0.0011845	Pa×s	427.42	Joback Method
dvisc	0.0012408	Pa×s	463.92	Joback Method
dvisc	0.0012911	Pa×s	500.42	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R304551&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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