

2-Oxaadamantane

Inchi:	InChI=1S/C9H14O/c1-6-2-8-4-7(1)5-9(3-6)10-8/h6-9H,1-5H2
InchiKey:	CMRFJAMFEWYMKE-UHFFFAOYSA-N
Formula:	C9H14O
SMILES:	C1C2CC3CC1CC(C2)O3
Mol. weight [g/mol]:	138.21
CAS:	281-24-3

Physical Properties

Property code	Value	Unit	Source
gf	101.22	kJ/mol	Joback Method
hf	-169.19	kJ/mol	Joback Method
hfus	20.42	kJ/mol	Joback Method
hvap	39.74	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.964		Crippen Method
mcvol	110.960	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
tb	452.09	K	Joback Method
tc	667.78	K	Joback Method
tf	567.00 ± 3.00	K	NIST Webbook
vc	0.422	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.00	J/mol×K	452.09	Joback Method
cpg	280.38	J/mol×K	488.04	Joback Method
cpg	298.39	J/mol×K	523.99	Joback Method
cpg	315.11	J/mol×K	559.93	Joback Method
cpg	330.63	J/mol×K	595.88	Joback Method
cpg	345.06	J/mol×K	631.83	Joback Method
cpg	358.48	J/mol×K	667.78	Joback Method
dvisc	0.0009498	Paxs	263.82	Joback Method
dvisc	0.0010283	Paxs	295.20	Joback Method

dvisc	0.0010964	Paxs	326.58	Joback Method
dvisc	0.0011560	Paxs	357.96	Joback Method
dvisc	0.0012084	Paxs	389.33	Joback Method
dvisc	0.0012549	Paxs	420.71	Joback Method
dvisc	0.0012964	Paxs	452.09	Joback Method
hfust	8.12	kJ/mol	567.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C281243&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
hfust:	Enthalpy of fusion at a given temperature
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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