

2-Norbornyl radical

Inchi: InChI=1S/C7H11/c1-2-7-4-3-6(1)5-7/h1,6-7H,2-5H2
InchiKey: WVKPYYLOFMTDHB-UHFFFAOYSA-N
Formula: C7H11
SMILES: [CH]1CC2CCC1C2
Mol. weight [g/mol]: 95.16
CAS: 30967-37-4

Physical Properties

Property code	Value	Unit	Source
gf	162.13	kJ/mol	Joback Method
hf	-12.90	kJ/mol	Joback Method
hfus	10.81	kJ/mol	Joback Method
hvap	30.72	kJ/mol	Joback Method
ie	6.84	eV	NIST Webbook
log10ws	-1.67		Crippen Method
logp	2.011		Crippen Method
mcvol	85.620	ml/mol	McGowan Method
pc	3935.71	kPa	Joback Method
tb	371.94	K	Joback Method
tc	570.42	K	Joback Method
tf	213.14	K	Joback Method
vc	0.324	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.98	J/mol×K	371.94	Joback Method
cpg	223.10	J/mol×K	537.34	Joback Method
cpg	211.24	J/mol×K	504.26	Joback Method
cpg	198.47	J/mol×K	471.18	Joback Method
cpg	184.72	J/mol×K	438.10	Joback Method
cpg	169.91	J/mol×K	405.02	Joback Method
cpg	234.11	J/mol×K	570.42	Joback Method
dvisc	0.0005179	Pa×s	371.94	Joback Method

dvisc	0.0004624	Pa×s	345.47	Joback Method
dvisc	0.0004051	Pa×s	319.01	Joback Method
dvisc	0.0003466	Pa×s	292.54	Joback Method
dvisc	0.0002874	Pa×s	266.07	Joback Method
dvisc	0.0002287	Pa×s	239.61	Joback Method
dvisc	0.0001719	Pa×s	213.14	Joback Method

Sources

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=C30967374&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ie:	Ionization energy
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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