1-Cyclopentyl-2-propen-1-ol

Inchi: InChI=1S/C8H14O/c1-2-8(9)7-5-3-4-6-7/h2,7-9H,1,3-6H2
InchiKey: ONUDNHNDLANEQQ-UHFFFAOYSA-N
Formula: C8H14O
SMILES: C=CC(O)C1CCCC1
Mol. weight [g/mol]: 126.20
CAS: 87453-54-1

Physical Properties

Property code	Value	Unit	Source
gf	1.61	kJ/mol	Joback Method
hf	-180.05	kJ/mol	Joback Method
hfus	9.70	kJ/mol	Joback Method
hvap	49.28	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	1.723		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3611.55	kPa	Joback Method
tb	486.14	K	Joback Method
tc	677.83	K	Joback Method
tf	234.88	K	Joback Method
vc	0.418	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.33	J/mol×K	486.14	Joback Method
cpg	319.12	J/mol×K	645.88	Joback Method
cpg	308.12	J/mol×K	613.93	Joback Method
cpg	296.47	J/mol×K	581.98	Joback Method
cpg	284.15	J/mol×K	550.04	Joback Method
cpg	271.11	J/mol×K	518.09	Joback Method
cpg	329.50	J/mol×K	677.83	Joback Method
dvisc	0.0002096	Pa×s	486.14	Joback Method
dvisc	0.0003515	Pa×s	444.26	Joback Method

dvisc	0.0006566	Pa×s	402.39	Joback Method
dvisc	0.0014178	Pa×s	360.51	Joback Method
dvisc	0.0037484	Pa×s	318.63	Joback Method
dvisc	0.0133001	Pa×s	276.76	Joback Method
dvisc	0.0741282	Pa×s	234.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C87453541&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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