

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/molxK	486.14	Joback Method
cpg	271.11	J/molxK	518.09	Joback Method
cpg	284.15	J/molxK	550.04	Joback Method
cpg	296.47	J/molxK	581.98	Joback Method
cpg	308.12	J/molxK	613.93	Joback Method
cpg	319.12	J/molxK	645.88	Joback Method
cpg	329.50	J/molxK	677.83	Joback Method
dvisc	0.0741282	Paxs	234.88	Joback Method
dvisc	0.0133001	Paxs	276.76	Joback Method

dvisc	0.0037484	Paxs	318.63	Joback Method
dvisc	0.0014178	Paxs	360.51	Joback Method
dvisc	0.0006566	Paxs	402.39	Joback Method
dvisc	0.0003515	Paxs	444.26	Joback Method
dvisc	0.0002096	Paxs	486.14	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/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

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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