cyclopent-2-en-1-ol

Inchi: InChI=1S/C5H8O/c6-5-3-1-2-4-5/h1,3,5-6H,2,4H2
InchiKey: PSBABBDEUFNFKJ-UHFFFAOYSA-N
Formula: C5H8O
SMILES: OC1C=CCC1
Mol. weight [g/mol]: 84.12
CAS: 3212-60-0

Physical Properties

Property code	Value	Unit	Source
gf	-79.09	kJ/mol	Joback Method
hf	-180.50	kJ/mol	Joback Method
hfus	7.95	kJ/mol	Joback Method
hvap	43.95	kJ/mol	Joback Method
ie	9.60 ± 0.05	eV	NIST Webbook
log10ws	-1.04		Crippen Method
logp	0.697		Crippen Method
mcvol	72.020	ml/mol	McGowan Method
pc	5175.72	kPa	Joback Method
tb	420.42	K	Joback Method
tc	611.65	K	Joback Method
tf	215.60 ± 0.60	K	NIST Webbook
vc	0.262	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.40	J/mol×K	420.42	Joback Method
cpg	179.77	J/mol×K	579.78	Joback Method
cpg	172.05	J/mol×K	547.91	Joback Method
cpg	163.88	J/mol×K	516.04	Joback Method
cpg	155.22	J/mol×K	484.16	Joback Method
cpg	146.07	J/mol×K	452.29	Joback Method
cpg	187.05	J/mol×K	611.65	Joback Method
dvisc	0.0003137	Pa×s	420.42	Joback Method

dvisc	0.0005065	Pa×s	386.78	Joback Method
dvisc	0.0008960	Pa×s	353.14	Joback Method
dvisc	0.0017871	Pa×s	319.50	Joback Method
dvisc	0.0041936	Pa×s	285.87	Joback Method
dvisc	0.0123544	Pa×s	252.23	Joback Method
dvisc	0.0507553	Pa×s	218.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3212600&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
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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