2-(Cyclopenten-1-yl)acetic acid

Other names: cyclopent-2-enylacetic acid
Inchi: InChI=1S/C7H10O2/c8-7(9)5-6-3-1-2-4-6/h1,3,6H,2,4-5H2,(H,8,9)
InchiKey: NNRZTJAACCRFRV-UHFFFAOYSA-N
Formula: C7H10O2
SMILES: O=C(O)CC1C=CCC1
Mol. weight [g/mol]: 126.15
CAS: 13668-61-6

Physical Properties

Property code	Value	Unit	Source
gf	-191.17	kJ/mol	Joback Method
hf	-334.36	kJ/mol	Joback Method
hfus	14.73	kJ/mol	Joback Method
hvap	55.15	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.427		Crippen Method
mcvol	101.770	ml/mol	McGowan Method
pc	4333.96	kPa	Joback Method
tb	520.05	K	Joback Method
tc	717.25	K	Joback Method
tf	291.06	K	Joback Method
vc	0.380	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.43	J/mol×K	520.05	Joback Method
cpg	281.06	J/mol×K	684.39	Joback Method
cpg	272.49	J/mol×K	651.52	Joback Method
cpg	263.36	J/mol×K	618.65	Joback Method
cpg	253.66	J/mol×K	585.78	Joback Method
cpg	243.36	J/mol×K	552.92	Joback Method
cpg	289.10	J/mol×K	717.25	Joback Method
dvisc	0.0002181	Pa×s	520.05	Joback Method

dvisc	0.0003315	Pa×s	481.88	Joback Method
dvisc	0.0005417	Pa×s	443.72	Joback Method
dvisc	0.0009707	Pa×s	405.55	Joback Method
dvisc	0.0019637	Pa×s	367.39	Joback Method
dvisc	0.0046771	Pa×s	329.23	Joback Method
dvisc	0.0139872	Pa×s	291.06	Joback Method

Sources

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=C13668616&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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