

Cyclopenta-1,3-dien-1-ol

Other names:	1,3-Cyclopentadien-1-ol
Inchi:	InChI=1S/C5H6O/c6-5-3-1-2-4-5/h1-3,6H,4H2
InchiKey:	RAWMWTYCZYEESB-UHFFFAOYSA-N
Formula:	C5H6O
SMILES:	OC1=CC=CC1
Mol. weight [g/mol]:	82.10
CAS:	103905-53-9

Physical Properties

Property code	Value	Unit	Source
gf	-51.05	kJ/mol	Joback Method
hf	-113.85	kJ/mol	Joback Method
hfus	7.71	kJ/mol	Joback Method
hvap	45.22	kJ/mol	Joback Method
log10ws	-1.34		Crippen Method
logp	1.388		Crippen Method
mcvol	67.720	ml/mol	McGowan Method
pc	5602.57	kPa	Joback Method
tb	429.23	K	Joback Method
tc	624.27	K	Joback Method
tf	236.11	K	Joback Method
vc	0.248	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	122.14	J/mol×K	429.23	Joback Method
cpg	129.81	J/mol×K	461.74	Joback Method
cpg	137.02	J/mol×K	494.24	Joback Method
cpg	143.79	J/mol×K	526.75	Joback Method
cpg	150.15	J/mol×K	559.26	Joback Method
cpg	156.12	J/mol×K	591.77	Joback Method
cpg	161.71	J/mol×K	624.27	Joback Method
dvisc	0.0271112	Pa×s	236.11	Joback Method

dvisc	0.0079412	Pa×s	268.30	Joback Method
dvisc	0.0030260	Pa×s	300.48	Joback Method
dvisc	0.0013897	Pa×s	332.67	Joback Method
dvisc	0.0007322	Pa×s	364.86	Joback Method
dvisc	0.0004280	Pa×s	397.04	Joback Method
dvisc	0.0002711	Pa×s	429.23	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103905539&Units=SI

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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