

Cyclopenta-1,3-dien-2-ol

Other names:	1,4-Cyclopentadien-1-ol
Inchi:	InChI=1S/C5H6O/c6-5-3-1-2-4-5/h1,3-4,6H,2H2
InchiKey:	BFAIMMGBWGSCPF-UHFFFAOYSA-N
Formula:	C5H6O
SMILES:	OC1=CCC=C1
Mol. weight [g/mol]:	82.10
CAS:	103905-54-0

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/molxK	429.23	Joback Method
cpg	129.81	J/molxK	461.74	Joback Method
cpg	137.02	J/molxK	494.24	Joback Method
cpg	143.79	J/molxK	526.75	Joback Method
cpg	150.15	J/molxK	559.26	Joback Method
cpg	156.12	J/molxK	591.77	Joback Method
cpg	161.71	J/molxK	624.27	Joback Method
dvisc	0.0271112	Paxs	236.11	Joback Method

dvisc	0.0079412	Paxs	268.30	Joback Method
dvisc	0.0030260	Paxs	300.48	Joback Method
dvisc	0.0013897	Paxs	332.67	Joback Method
dvisc	0.0007322	Paxs	364.86	Joback Method
dvisc	0.0004280	Paxs	397.04	Joback Method
dvisc	0.0002711	Paxs	429.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103905540&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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