

Cyclopenta-2,4-dien-1-ol

Other names:	2,4-Cyclopentadien-1-ol
Inchi:	InChI=1S/C5H6O/c6-5-3-1-2-4-5/h1-6H
InchiKey:	GRZIHXUWTOPZRY-UHFFFAOYSA-N
Formula:	C5H6O
SMILES:	OC1C=CC=C1
Mol. weight [g/mol]:	82.10
CAS:	80156-16-7

Physical Properties

Property code	Value	Unit	Source
gf	-49.13	kJ/mol	Joback Method
hf	-122.72	kJ/mol	Joback Method
hfus	9.17	kJ/mol	Joback Method
hvap	44.24	kJ/mol	Joback Method
log10ws	-0.89		Crippen Method
logp	0.473		Crippen Method
mcvol	67.720	ml/mol	McGowan Method
pc	5454.60	kPa	Joback Method
tb	419.58	K	Joback Method
tc	612.75	K	Joback Method
tf	219.35	K	Joback Method
vc	0.247	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	122.97	J/mol×K	419.58	Joback Method
cpg	160.33	J/mol×K	580.56	Joback Method
cpg	153.76	J/mol×K	548.36	Joback Method
cpg	146.75	J/mol×K	516.17	Joback Method
cpg	139.30	J/mol×K	483.97	Joback Method
cpg	131.38	J/mol×K	451.78	Joback Method
cpg	166.50	J/mol×K	612.75	Joback Method
dvisc	0.0002986	Paxs	419.58	Joback Method

dvisc	0.0004716	Paxs	386.21	Joback Method
dvisc	0.0008123	Paxs	352.84	Joback Method
dvisc	0.0015675	Paxs	319.46	Joback Method
dvisc	0.0035260	Paxs	286.09	Joback Method
dvisc	0.0098249	Paxs	252.72	Joback Method
dvisc	0.0373931	Paxs	219.35	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C80156167&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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