1,4-Cyclohexadiene-1-methanol, 4-(1-methylethyl)-

Other names: p-Mentha-1,4-dien-7-ol
1,4-p-Menthadien-7-ol
1-Methoxy-4-1(methyl ethyl)-cyclohexane-1,4-dione

Inchi: InChI=1S/C10H16O/c1-8(2)10-5-3-9(7-11)4-6-10/h3,6,8,11H,4-5,7H2,1-2H3

InchiKey: IRZQJXCCKXGQFV-UHFFFAOYSA-N

Formula: C10H16O

SMILES: CC(C)C1=CCC(CO)=CC1

Mol. weight [g/mol]: 152.23

CAS: 22539-72-6

Physical Properties

Property code	Value	Unit	Source
gf	-33.12	kJ/mol	Joback Method
hf	-239.96	kJ/mol	Joback Method
hfus	14.65	kJ/mol	Joback Method
hvap	56.79	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.281		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
rinpol	1333.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1329.50		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2065.00		NIST Webbook
ripol	2073.00		NIST Webbook
ripol	2073.00		NIST Webbook

tb	552.44	K	Joback Method
tc	748.10	K	Joback Method
tf	286.46	K	Joback Method
vc	0.514	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.66	J/mol×K	552.44	Joback Method
cpg	344.29	J/mol×K	585.05	Joback Method
cpg	357.21	J/mol×K	617.66	Joback Method
cpg	369.45	J/mol×K	650.27	Joback Method
cpg	381.03	J/mol×K	682.88	Joback Method
cpg	391.98	J/mol×K	715.49	Joback Method
cpg	402.32	J/mol×K	748.10	Joback Method
dvisc	0.0168754	Pa×s	286.46	Joback Method
dvisc	0.0039809	Pa×s	330.79	Joback Method
dvisc	0.0013212	Pa×s	375.12	Joback Method
dvisc	0.0005536	Pa×s	419.45	Joback Method
dvisc	0.0002739	Pa×s	463.78	Joback Method
dvisc	0.0001533	Pa×s	508.11	Joback Method
dvisc	0.0000941	Pa×s	552.44	Joback Method

Sources

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=C22539726&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume