Limonen-10-ol

Other names:	p-mentha-1,8-dien-9-ol
	p-mentha-1,8-dien-10-ol
	1,8-menthadien-9-ol
	1,8-p-Menthadien-9-ol
	Limonene-10-ol
	p-menth-1,8-dien-9-ol
	p-Mentha-1,8-diene-10-ol
	p-Menta-1,8-dien-10-ol
	p-Menthadien-1,8-dien-9-ol
	4-methyl-«beta»-methylenecyclohex-3-ene-1-ethanol
Inchi:	InChI=1S/C10H16O/c1-8-3-5-10(6-4-8)9(2)7-11/h3,10-11H,2,4-7H2,1H3
InchiKey:	UIMAEYMKYMNCGW-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	C=C(CO)C1CC=C(C)CC1
Mol. weight [g/mol]:	152.23
CAS:	3269-90-7

Physical Properties

Property code	Value	Unit	Source
gf	20.57	kJ/mol	Joback Method
hf	-185.69	kJ/mol	Joback Method
hfus	15.82	kJ/mol	Joback Method
hvap	55.33	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.281		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3042.32	kPa	Joback Method
rinpol	1239.00		NIST Webbook
rinpol	1289.00		NIST Webbook
rinpol	1274.00		NIST Webbook
ripol	1987.00		NIST Webbook
ripol	1979.00		NIST Webbook
ripol	1979.00		NIST Webbook
ripol	1939.00		NIST Webbook
ripol	1980.00		NIST Webbook
ripol	1962.00		NIST Webbook
ripol	1996.00		NIST Webbook

ripol	2008.00		NIST Webbook
tb	540.63	K	Joback Method
tc	736.52	K	Joback Method
tf	268.22	K	Joback Method
vc	0.515	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.83	J/mol×K	540.63	Joback Method
cpg	345.48	J/mol×K	573.28	Joback Method
cpg	359.35	J/mol×K	605.93	Joback Method
cpg	372.48	J/mol×K	638.57	Joback Method
cpg	384.90	J/mol×K	671.22	Joback Method
cpg	396.63	J/mol×K	703.87	Joback Method
cpg	407.69	J/mol×K	736.52	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=C3269907&Units=SI

Legend

cpg: Ideal gas heat capacity
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