p-Mentha-1,5-dien-8-ol

Other names:	2,4-Cyclohexadiene-1-methanol, «alpha»,«alpha»,4-trimethyl- «alpha»-Phellandren-8-ol «alpha»-Phellandrene-8-ol 1,5-p-Menthadien-8-ol p-1,5-Menthadien-8-ol p-1,5-Menthadienol-8 para-Mentha-1,5-dien-8-ol p-Menth-1,5-dien-8-ol p-Mentha-1,5-diene-8-ol Phellandren-8-ol, «alpha»- Mentha-1,5-diene-8-ol p-Mentha-1,5-dien-8-ol («alpha»-phellandren-8-ol) Phellandrene-8-«alpha»-ol p-Mentha-2,6-dien-8-ol Menth-1,5-diene-8-ol Mentha-1,5-dien-8-ol
Inchi:	InChI=1S/C10H16O/c1-8-4-6-9(7-5-8)10(2,3)11/h4-6,9,11H,7H2,1-3H3
InchiKey:	FQEXRDMYDXBXEO-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC1=CCC(C(C)(C)O)C=C1
Mol. weight [g/mol]:	152.23
CAS:	1686-20-0

Physical Properties

Property code	Value	Unit	Source
gf	-25.92	kJ/mol	Joback Method
hf	-252.30	kJ/mol	Joback Method
hfus	12.22	kJ/mol	Joback Method
hvap	54.91	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.280		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3069.34	kPa	Joback Method
rinpol	1170.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1161.00		NIST Webbook

rinpol	1190.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1170.00	NIST Webbook
rinpol	1156.00	NIST Webbook
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ripol	1714.00	NIST Webbook

ripol	1698.00		NIST Webbook
ripol	1725.00		NIST Webbook
tb	540.00	K	Joback Method
tc	741.94	K	Joback Method
tf	287.12	K	Joback Method
vc	0.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.02	J/mol×K	540.00	Joback Method
cpg	349.91	J/mol×K	573.66	Joback Method
cpg	363.90	J/mol×K	607.31	Joback Method
cpg	377.04	J/mol×K	640.97	Joback Method
cpg	389.36	J/mol×K	674.63	Joback Method
cpg	400.90	J/mol×K	708.28	Joback Method
cpg	411.72	J/mol×K	741.94	Joback Method
dvisc	0.0174265	Pa×s	287.12	Joback Method
dvisc	0.0043877	Pa×s	329.27	Joback Method
dvisc	0.0015108	Pa×s	371.41	Joback Method
dvisc	0.0006465	Pa×s	413.56	Joback Method
dvisc	0.0003236	Pa×s	455.71	Joback Method
dvisc	0.0001822	Pa×s	497.85	Joback Method
dvisc	0.0001122	Pa×s	540.00	Joback Method

Sources

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=C1686200&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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