p-Mentha-1(7),2-dien-8-ol

Other names:	2-Cyclohexene-1-methanol, «alpha»,«alpha»-dimethyl-4-methylene- «beta»-Phellandren-8-ol «beta»-Phellandrene-8-ol p-1(7),2-Menthadienol-8 p-Menth-1(7),5-dien-8-ol p-Mentha-1(7),2-dien-8-ol («beta»-phellandren-8-ol)
Inchi:	InChI=1S/C10H16O/c1-8-4-6-9(7-5-8)10(2,3)11/h4,6,9,11H,1,5,7H2,2-3H3
InchiKey:	YGYSWSPXSCQPRC-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	C=C1C=CC(C(C)(C)O)CC1
Mol. weight [g/mol]:	152.23
CAS:	65293-09-6

Physical Properties

Property code	Value	Unit	Source
gf	6.83	kJ/mol	Joback Method
hf	-214.37	kJ/mol	Joback Method
hfus	10.23	kJ/mol	Joback Method
hvap	54.12	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.280		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3062.55	kPa	Joback Method
rinpol	1168.00		NIST Webbook
rinpol	1181.00		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1215.00		NIST Webbook
rinpol	1121.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1154.00		NIST Webbook
rinpol	1174.00		NIST Webbook
ripol	1783.00		NIST Webbook
ripol	1773.00		NIST Webbook
ripol	1783.00		NIST Webbook
ripol	1773.00		NIST Webbook
ripol	1778.00		NIST Webbook
tb	535.02	K	Joback Method

tc	735.70	K	Joback Method
tf	287.52	K	Joback Method
vc	0.506	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.20	J/mol×K	535.02	Joback Method
cpg	401.01	J/mol×K	702.25	Joback Method
cpg	389.28	J/mol×K	668.81	Joback Method
cpg	376.78	J/mol×K	635.36	Joback Method
cpg	363.46	J/mol×K	601.91	Joback Method
cpg	349.28	J/mol×K	568.47	Joback Method
cpg	411.99	J/mol×K	735.70	Joback Method
dvisc	0.0001274	Pa×s	535.02	Joback Method
dvisc	0.0002063	Pa×s	493.77	Joback Method
dvisc	0.0003649	Pa×s	452.52	Joback Method
dvisc	0.0007234	Pa×s	411.27	Joback Method
dvisc	0.0016709	Pa×s	370.02	Joback Method
dvisc	0.0047615	Pa×s	328.77	Joback Method
dvisc	0.0183242	Pa×s	287.52	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C65293096&Units=SI
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

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

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