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

Other names:	trans-1(7),8-p-Menthadien-2-ol
	2S,4R-p-Mentha-1(7),8-dien-2-ol
	trans-p-Menth-1(7),8-dien-2-ol
	trans-Mentha-1(7),8-dien-2-ol
	p-Mentha-1(7),8-dien-2-ol, trans
	trans-p-Mentha-1(7),8-diene-2-ol
Inchi:	InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)10(11)6-9/h9-11H,1,3-6H2,2H3/t9-,10+/m1/s1
InchiKey:	PNVTXOFNJFHXOK-ZJUUUORDSA-N
Formula:	C10H16O
SMILES:	C=C1CCC(C(=C)C)CC1O
Mol. weight [g/mol]:	152.23
CAS:	21391-84-4

Physical Properties

Property code	Value	Unit	Source
gf	45.61	kJ/mol	Joback Method
hf	-168.10	kJ/mol	Joback Method
hfus	14.90	kJ/mol	Joback Method
hvap	54.22	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.280		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	1175.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1165.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1174.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1790.00		NIST Webbook
ripol	1810.00		NIST Webbook
ripol	1795.00		NIST Webbook
ripol	1821.00		NIST Webbook

ripol	1784.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1793.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
tb	530.98	K	Joback Method
tc	725.43	K	Joback Method
tf	264.38	K	Joback Method
vc	0.512	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.07	J/mol×K	530.98	Joback Method
cpg	346.27	J/mol×K	563.39	Joback Method
cpg	360.71	J/mol×K	595.80	Joback Method
cpg	374.42	J/mol×K	628.21	Joback Method
cpg	387.41	J/mol×K	660.61	Joback Method
cpg	399.70	J/mol×K	693.02	Joback Method
cpg	411.31	J/mol×K	725.43	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C21391844&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

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