trans-p-Mentha-1(7),5-dien-2-ol

Other names: trans-1(7),5-p-Menthadien-2-ol
Inchi: InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)10(11)6-9/h4-5,7,9-11H,3,6H2,1-2H3/t9-,10+/m1/s1
InchiKey: VKAGFXRPRUAOHV-ZJUUUORDSA-N
Formula: C10H16O
SMILES: C=C1C=CC(C(C)C)CC1O
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	-6.16	kJ/mol	Joback Method
hf	-231.24	kJ/mol	Joback Method
hfus	15.19	kJ/mol	Joback Method
hvap	54.72	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.136		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1191.00		NIST Webbook
rinpol	1184.00		NIST Webbook
rinpol	1191.00		NIST Webbook
tb	533.14	K	Joback Method
tc	726.14	K	Joback Method
tf	265.86	K	Joback Method
vc	0.510	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.43	J/mol×K	533.14	Joback Method
cpg	347.27	J/mol×K	565.31	Joback Method
cpg	361.39	J/mol×K	597.47	Joback Method
cpg	374.81	J/mol×K	629.64	Joback Method
cpg	387.52	J/mol×K	661.81	Joback Method
cpg	399.57	J/mol×K	693.98	Joback Method

cpg	410.94	J/mol×K	726.14	Joback Method
dvisc	0.0204533	Pa×s	265.86	Joback Method
dvisc	0.0049246	Pa×s	310.41	Joback Method
dvisc	0.0016951	Pa×s	354.95	Joback Method
dvisc	0.0007401	Pa×s	399.50	Joback Method
dvisc	0.0003816	Pa×s	444.05	Joback Method
dvisc	0.0002220	Pa×s	488.59	Joback Method
dvisc	0.0001414	Pa×s	533.14	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=R233924&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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