trans-p-Mentha-2,8-dienol

Inchi: InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)6-10(9)11/h6,8-9,11H,1,4-5H2,2-3H3/t8-,9+/m1/s1
InchiKey: FXVHTIGBZHVHOB-BDAKNGLRSA-N
Formula: C10H16O
SMILES: C=C(C)C1CCC(C)C=C1O
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	12.86	kJ/mol	Joback Method
hf	-206.03	kJ/mol	Joback Method
hfus	16.89	kJ/mol	Joback Method
hvap	55.02	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	3.050		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2934.52	kPa	Joback Method
rinpol	1131.00		NIST Webbook
rinpol	1118.00		NIST Webbook
rinpol	1131.00		NIST Webbook
rinpol	1113.00		NIST Webbook
rinpol	1078.00		NIST Webbook
tb	535.96	K	Joback Method
tc	731.65	K	Joback Method
tf	263.98	K	Joback Method
vc	0.514	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.99	J/mol×K	535.96	Joback Method
cpg	347.03	J/mol×K	568.58	Joback Method
cpg	361.30	J/mol×K	601.19	Joback Method
cpg	374.84	J/mol×K	633.81	Joback Method
cpg	387.67	J/mol×K	666.42	Joback Method

cpg	399.80	J/mol×K	699.04	Joback Method
cpg	411.26	J/mol×K	731.65	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=U139653&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
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