p-Mentha-1(7),8(10)-dien-9-ol

Other names: p-Menth-1(7),8(10)-dien-9-ol
Inchi: InChI=1S/C10H16O/c1-8-3-5-10(6-4-8)9(2)7-11/h10-11H,1-7H2
InchiKey: SDDQNZKSVASSFO-UHFFFAOYSA-N
Formula: C10H16O
SMILES: C=C1CCC(C(=C)CO)CC1
Mol. weight [g/mol]: 152.23
CAS: 29548-13-8

Physical Properties

Property code	Value	Unit	Source
gf	53.32	kJ/mol	Joback Method
hf	-147.76	kJ/mol	Joback Method
hfus	13.83	kJ/mol	Joback Method
hvap	54.53	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.281		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	1287.00		NIST Webbook
tb	535.65	K	Joback Method
tc	730.31	K	Joback Method
tf	268.62	K	Joback Method
vc	0.513	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.99	J/mol×K	535.65	Joback Method
cpg	344.80	J/mol×K	568.09	Joback Method
cpg	358.85	J/mol×K	600.54	Joback Method
cpg	372.15	J/mol×K	632.98	Joback Method
cpg	384.73	J/mol×K	665.42	Joback Method
cpg	396.62	J/mol×K	697.86	Joback Method
cpg	407.84	J/mol×K	730.31	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C29548138&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume