2,8-Menthadien-1-ol

Other names: 2,8-p-Menthadien-1-ol
Inchi: InChI=1S/C10H16O/c1-8(2)9-4-6-10(3,11)7-5-9/h4,6,9,11H,1,5,7H2,2-3H3
InchiKey: MKPMHJQMNACGDI-UHFFFAOYSA-N
Formula: C10H16O
SMILES: C=C(C)C1C=CC(C)(O)CC1
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	17.00	kJ/mol	Joback Method
hf	-179.32	kJ/mol	Joback Method
hfus	10.98	kJ/mol	Joback Method
hvap	53.20	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.280		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	1120.00		NIST Webbook
rinpol	1109.00		NIST Webbook
rinpol	1113.00		NIST Webbook
rinpol	1109.00		NIST Webbook
tb	531.22	K	Joback Method
tc	733.58	K	Joback Method
tf	275.36	K	Joback Method
vc	0.512	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.31	J/mol×K	531.22	Joback Method
cpg	346.46	J/mol×K	564.95	Joback Method
cpg	360.68	J/mol×K	598.67	Joback Method
cpg	374.06	J/mol×K	632.40	Joback Method
cpg	386.71	J/mol×K	666.13	Joback Method

cpg	398.72	J/mol×K	699.85	Joback Method
cpg	410.18	J/mol×K	733.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R557374&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

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