p-Menth-3-en-9-ol

Other names: 2-(4-Methyl-1-cyclohexen-1-yl)-1-propanol
1-Cyclohexene-1-ethanol, «beta»,4-dimethyl-
p-Menth-4-en-9-ol
Inchi: InChI=1S/C10H18O/c1-8-3-5-10(6-4-8)9(2)7-11/h5,8-9,11H,3-4,6-7H2,1-2H3
InchiKey: KFUIAXXMGXAVHN-UHFFFAOYSA-N
Formula: C10H18O
SMILES: CC1CC=C(C(C)CO)CC1
Mol. weight [g/mol]: 154.25
CAS: 15714-10-0

Physical Properties

Property code	Value	Unit	Source
gf	-61.16	kJ/mol	Joback Method
hf	-306.61	kJ/mol	Joback Method
hfus	14.89	kJ/mol	Joback Method
hvap	55.53	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.361		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
rinpol	1141.00		NIST Webbook
rinpol	1141.00		NIST Webbook
ripol	1736.00		NIST Webbook
ripol	1754.00		NIST Webbook
ripol	1745.00		NIST Webbook
ripol	1736.00		NIST Webbook
ripol	1736.00		NIST Webbook
tb	543.63	K	Joback Method
tc	736.33	K	Joback Method
tf	268.94	K	Joback Method
vc	0.527	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.69	J/mol×K	543.63	Joback Method
cpg	420.10	J/mol×K	704.22	Joback Method
cpg	407.67	J/mol×K	672.10	Joback Method
cpg	394.53	J/mol×K	639.98	Joback Method
cpg	380.67	J/mol×K	607.86	Joback Method
cpg	366.07	J/mol×K	575.75	Joback Method
cpg	431.85	J/mol×K	736.33	Joback Method
dvisc	0.0001106	Pa×s	543.63	Joback Method
dvisc	0.0001833	Pa×s	497.85	Joback Method
dvisc	0.0003366	Pa×s	452.07	Joback Method
dvisc	0.0007086	Pa×s	406.28	Joback Method
dvisc	0.0018025	Pa×s	360.50	Joback Method
dvisc	0.0060154	Pa×s	314.72	Joback Method
dvisc	0.0302592	Pa×s	268.94	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C15714100&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
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
ripol: Polar retention indices

tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume