3-Cyclohexene-1-ethanol, «beta»,4-dimethyl-, [S-(R*,S*)]-

Other names: p-Menth-1-en-9-ol, (4R,8S)-(+)-
(+)-p-Menta-1-en-9-ol
3-Cyclohexene-1-ethanol, «beta»,4-dimethyl-, [S-(R,S)]-
2-(4-Methyl-3-cyclohexen-1-yl)-1-propanol-, («beta»S,1R)-
(+)-p-Mentha-1-en-9-ol
menthen-9-ol
p-menth-1-ene-9-ol

Inchi: InChI=1S/C10H18O/c1-8-3-5-10(6-4-8)9(2)7-11/h3,9-11H,4-7H2,1-2H3

InchiKey: ZTYHGIAOVUPAAH-UHFFFAOYSA-N

Formula: C10H18O

SMILES: CC1=CCC(C(C)CO)CC1

Mol. weight [g/mol]: 154.25

CAS: 13835-75-1

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	1288.00		NIST Webbook
ripol	1924.00		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	366.07	J/mol×K	575.75	Joback Method
cpg	380.67	J/mol×K	607.86	Joback Method
cpg	394.53	J/mol×K	639.98	Joback Method
cpg	407.67	J/mol×K	672.10	Joback Method
cpg	420.10	J/mol×K	704.22	Joback Method
cpg	431.85	J/mol×K	736.33	Joback Method
dvisc	0.0302592	Pa×s	268.94	Joback Method
dvisc	0.0060154	Pa×s	314.72	Joback Method
dvisc	0.0018025	Pa×s	360.50	Joback Method
dvisc	0.0007086	Pa×s	406.28	Joback Method
dvisc	0.0003366	Pa×s	452.07	Joback Method
dvisc	0.0001833	Pa×s	497.85	Joback Method
dvisc	0.0001106	Pa×s	543.63	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=C13835751&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature

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