

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

Other names:	p-Menth-1-en-9-ol, (4R,8R)-(+)-
Inchi:	InChI=1S/C10H18O/c1-8-3-5-10(6-4-8)9(2)7-11/h3,9-11H,4-7H2,1-2H3/t9-,10-/m1/s1
InchiKey:	ZTYHGIAOVUPAAH-NXEZZACHSA-N
Formula:	C10H18O
SMILES:	CC1=CCC(C(C)CO)CC1
Mol. weight [g/mol]:	154.25
CAS:	13835-30-8

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
tb	543.63	K	Joback Method
tc	736.33	K	Joback Method
tf	268.94	K	Joback Method
vc	0.527	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.69	J/molxK	543.63	Joback Method
cpg	366.07	J/molxK	575.75	Joback Method
cpg	380.67	J/molxK	607.86	Joback Method
cpg	394.53	J/molxK	639.98	Joback Method
cpg	407.67	J/molxK	672.10	Joback Method
cpg	420.10	J/molxK	704.22	Joback Method
cpg	431.85	J/molxK	736.33	Joback Method
dvisc	0.0302592	Paxs	268.94	Joback Method

dvisc	0.0060154	Paxs	314.72	Joback Method
dvisc	0.0018025	Paxs	360.50	Joback Method
dvisc	0.0007086	Paxs	406.28	Joback Method
dvisc	0.0003366	Paxs	452.07	Joback Method
dvisc	0.0001833	Paxs	497.85	Joback Method
dvisc	0.0001106	Paxs	543.63	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	388.70	K	1.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13835308&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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