Cyclohexaneethanol, «beta»-methyl-

Other names: 2-Cyclohexyl-1-propanol
2-cyclohexylpropan-1-ol
Inchi: InChI=1S/C9H18O/c1-8(7-10)9-5-3-2-4-6-9/h8-10H,2-7H2,1H3
InchiKey: IRIVQXLOJHCXIE-UHFFFAOYSA-N
Formula: C9H18O
SMILES: CC(CO)C1CCCCC1
Mol. weight [g/mol]: 142.24
CAS: 5442-00-2

Physical Properties

Property code	Value	Unit	Source
gf	-89.91	kJ/mol	Joback Method
hf	-332.28	kJ/mol	Joback Method
hfus	11.47	kJ/mol	Joback Method
hvap	52.35	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.195		Crippen Method
mcvol	132.680	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
tb	516.61	K	Joback Method
tc	708.93	K	Joback Method
tf	244.39	K	Joback Method
vc	0.485	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.00	J/mol×K	516.61	Joback Method
cpg	337.04	J/mol×K	548.66	Joback Method
cpg	352.27	J/mol×K	580.72	Joback Method
cpg	366.72	J/mol×K	612.77	Joback Method
cpg	380.41	J/mol×K	644.82	Joback Method
cpg	393.37	J/mol×K	676.88	Joback Method
cpg	405.61	J/mol×K	708.93	Joback Method

dvisc	0.0968941	Pa×s	244.39	Joback Method
dvisc	0.0138213	Pa×s	289.76	Joback Method
dvisc	0.0033404	Pa×s	335.13	Joback Method
dvisc	0.0011327	Pa×s	380.50	Joback Method
dvisc	0.0004836	Pa×s	425.87	Joback Method
dvisc	0.0002433	Pa×s	471.24	Joback Method
dvisc	0.0001381	Pa×s	516.61	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=C5442002&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume