Levo-menthoxyacetic acid

Other names:	(-)-Menthyloxyacetic acid
	L-Menthoxyacetic acid
	(-)-Menthoxyacetic acid
	Acetic acid, [[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-, [1R-(1«alpha», 2«beta», 5«alpha»)]-
	L-p-menth-3-yloxyacetic acid
Inchi:	InChI=1S/C12H22O3/c1-8(2)10-5-4-9(3)6-11(10)15-7-12(13)14/h8-11H,4-7H2,1-3H3,(H,
InchiKey:	CILPHQCEVYJUDN-UHFFFAOYSA-N
Formula:	C12H22O3
SMILES:	CC1CCC(C(C)C)C(OCC(=O)O)C1
Mol. weight [g/mol]:	214.30
CAS:	40248-63-3

Physical Properties

Property code	Value	Unit	Source
gf	-313.99	kJ/mol	Joback Method
hf	-679.68	kJ/mol	Joback Method
hfus	24.17	kJ/mol	Joback Method
hvap	67.56	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	2.548		Crippen Method
mcvol	182.390	ml/mol	McGowan Method
pc	2300.32	kPa	Joback Method
tb	652.20	K	Joback Method
tc	843.77	K	Joback Method
tf	341.88	K	Joback Method
vc	0.675	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	526.75	J/mol×K	652.20	Joback Method
cpg	543.67	J/mol×K	684.13	Joback Method
cpg	559.69	J/mol×K	716.06	Joback Method
cpg	574.81	J/mol×K	747.99	Joback Method

cpg	589.05	J/mol×K	779.91	Joback Method
cpg	602.41	J/mol×K	811.84	Joback Method
cpg	614.89	J/mol×K	843.77	Joback Method
dvisc	0.0061433	Pa×s	341.88	Joback Method
dvisc	0.0017993	Pa×s	393.60	Joback Method
dvisc	0.0007009	Pa×s	445.32	Joback Method
dvisc	0.0003322	Pa×s	497.04	Joback Method
dvisc	0.0001813	Pa×s	548.76	Joback Method
dvisc	0.0001098	Pa×s	600.48	Joback Method
dvisc	0.0000720	Pa×s	652.20	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	436.70	K	1.30	NIST Webbook

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=C40248633&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume