Formic acid, cis-4-methylcyclohexyl ester

Inchi: InChI=1S/C8H14O2/c1-7-2-4-8(5-3-7)10-6-9/h6-8H,2-5H2,1H3
InchiKey: DZRDTGDYROJVPD-UHFFFAOYSA-N
Formula: C8H14O2
SMILES: CC1CCC(OC=O)CC1
Mol. weight [g/mol]: 142.20

Physical Properties

Property code	Value	Unit	Source
gf	-171.30	kJ/mol	Joback Method
hf	-392.27	kJ/mol	Joback Method
hfus	12.86	kJ/mol	Joback Method
hvap	42.65	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.738		Crippen Method
mcvol	120.160	ml/mol	McGowan Method
pc	3239.34	kPa	Joback Method
rinpol	1035.00		NIST Webbook
rinpol	1035.00		NIST Webbook
tb	468.40	K	Joback Method
tc	674.15	K	Joback Method
tf	247.29	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	264.74	J/mol×K	468.40	Joback Method
cpg	280.75	J/mol×K	502.69	Joback Method
cpg	296.05	J/mol×K	536.98	Joback Method
cpg	310.62	J/mol×K	571.28	Joback Method
cpg	324.48	J/mol×K	605.57	Joback Method
cpg	337.63	J/mol×K	639.86	Joback Method
cpg	350.06	J/mol×K	674.15	Joback Method
dvisc	0.0034215	Pa×s	247.29	Joback Method

dvisc	0.0017716	Pa×s	284.14	Joback Method
dvisc	0.0010669	Pa×s	320.99	Joback Method
dvisc	0.0007133	Pa×s	357.85	Joback Method
dvisc	0.0005141	Pa×s	394.70	Joback Method
dvisc	0.0003919	Pa×s	431.55	Joback Method
dvisc	0.0003117	Pa×s	468.40	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U368247&Units=SI

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