Formic acid, 2,4-dimethylpent-3-yl ester

Inchi: InChI=1S/C8H16O2/c1-6(2)8(7(3)4)10-5-9/h5-8H,1-4H3
InchiKey: BATCZJUOZNYSLS-UHFFFAOYSA-N
Formula: C8H16O2
SMILES: CC(C)C(OC=O)C(C)C
Mol. weight [g/mol]: 144.21

Physical Properties

Property code	Value	Unit	Source
gf	-195.36	kJ/mol	Joback Method
hf	-442.09	kJ/mol	Joback Method
hfus	9.38	kJ/mol	Joback Method
hvap	41.37	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.840		Crippen Method
mcvol	131.020	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
rinpol	975.00		NIST Webbook
tb	452.20	K	Joback Method
tc	634.23	K	Joback Method
tf	199.15	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.20	J/mol×K	452.20	Joback Method
cpg	294.14	J/mol×K	482.54	Joback Method
cpg	306.58	J/mol×K	512.88	Joback Method
cpg	318.55	J/mol×K	543.21	Joback Method
cpg	330.03	J/mol×K	573.55	Joback Method
cpg	341.03	J/mol×K	603.89	Joback Method
cpg	351.56	J/mol×K	634.23	Joback Method
dvisc	0.0157115	Pa×s	199.15	Joback Method
dvisc	0.0042426	Pa×s	241.32	Joback Method

dvisc	0.0016913	Pa×s	283.50	Joback Method
dvisc	0.0008556	Pa×s	325.68	Joback Method
dvisc	0.0005060	Pa×s	367.85	Joback Method
dvisc	0.0003334	Pa×s	410.02	Joback Method
dvisc	0.0002375	Pa×s	452.20	Joback Method

Sources

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=U368261&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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