

Formic acid, tetrahydrofurfuryl ester

Inchi:	InChI=1S/C6H10O3/c7-5-8-4-6-2-1-3-9-6/h5-6H,1-4H2
InchiKey:	OJMXDPYZLDLHCF-UHFFFAOYSA-N
Formula:	C6H10O3
SMILES:	O=COCC1CCCO1
Mol. weight [g/mol]:	130.14

Physical Properties

Property code	Value	Unit	Source
gf	-254.45	kJ/mol	Joback Method
hf	-456.49	kJ/mol	Joback Method
hfus	16.69	kJ/mol	Joback Method
hvap	42.85	kJ/mol	Joback Method
log10ws	-0.29		Crippen Method
logp	0.338		Crippen Method
mcvol	97.850	ml/mol	McGowan Method
pc	4077.71	kPa	Joback Method
rinsol	1014.00		NIST Webbook
tb	449.99	K	Joback Method
tc	652.70	K	Joback Method
tf	259.08	K	Joback Method
vc	0.368	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	210.12	J/mol×K	449.99	Joback Method
cpg	264.96	J/mol×K	618.91	Joback Method
cpg	255.09	J/mol×K	585.13	Joback Method
cpg	244.68	J/mol×K	551.34	Joback Method
cpg	233.73	J/mol×K	517.56	Joback Method
cpg	222.21	J/mol×K	483.77	Joback Method
cpg	274.28	J/mol×K	652.70	Joback Method
dvisc	0.0004195	Paxs	449.99	Joback Method
dvisc	0.0005251	Paxs	418.17	Joback Method

dvisc	0.0006821	Paxs	386.35	Joback Method
dvisc	0.0009285	Paxs	354.53	Joback Method
dvisc	0.0013433	Paxs	322.72	Joback Method
dvisc	0.0021068	Paxs	290.90	Joback Method
dvisc	0.0036906	Paxs	259.08	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=U368755&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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