furfural ethyl propyl acetal

Inchi: InChI=1S/C11H18O2/c1-3-9-13-11(12-4-2)10-7-5-6-8-10/h5-7,11H,3-4,8-9H2,1-2H3
InchiKey: AASUBIVBGMLSMB-UHFFFAOYSA-N
Formula: C11H18O2
SMILES: CCCOC(OCC)C1=CC=CC1
Mol. weight [g/mol]: 182.26

Physical Properties

Property code	Value	Unit	Source
gf	-76.15	kJ/mol	Joback Method
hf	-355.18	kJ/mol	Joback Method
hfus	18.02	kJ/mol	Joback Method
hvap	46.32	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.662		Crippen Method
mcvol	158.130	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
ripol	1550.00		NIST Webbook
tb	518.73	K	Joback Method
tc	712.95	K	Joback Method
tf	272.37	K	Joback Method
vc	0.596	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.75	J/mol×K	518.73	Joback Method
cpg	384.61	J/mol×K	551.10	Joback Method
cpg	399.74	J/mol×K	583.47	Joback Method
cpg	414.17	J/mol×K	615.84	Joback Method
cpg	427.89	J/mol×K	648.21	Joback Method
cpg	440.93	J/mol×K	680.58	Joback Method
cpg	453.29	J/mol×K	712.95	Joback Method
dvisc	0.0026327	Pa×s	272.37	Joback Method
dvisc	0.0012528	Pa×s	313.43	Joback Method

dvisc	0.0007081	Pa×s	354.49	Joback Method
dvisc	0.0004505	Pa×s	395.55	Joback Method
dvisc	0.0003121	Pa×s	436.61	Joback Method
dvisc	0.0002303	Pa×s	477.67	Joback Method
dvisc	0.0001783	Pa×s	518.73	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=R340879&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume