furfural acetal

Inchi: InChI=1S/C10H16O2/c1-3-11-10(12-4-2)9-7-5-6-8-9/h5-7,10H,3-4,8H2,1-2H3
InchiKey: MYMKNEUWNLCERL-UHFFFAOYSA-N
Formula: C10H16O2
SMILES: CCOC(OCC)C1=CC=CC1
Mol. weight [g/mol]: 168.23

Physical Properties

Property code	Value	Unit	Source
gf	-84.57	kJ/mol	Joback Method
hf	-334.54	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	44.10	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	2.272		Crippen Method
mcvol	144.040	ml/mol	McGowan Method
pc	2673.54	kPa	Joback Method
ripol	1663.00		NIST Webbook
ripol	1663.00		NIST Webbook
tb	495.85	K	Joback Method
tc	692.59	K	Joback Method
tf	261.10	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.82	J/mol×K	495.85	Joback Method
cpg	337.81	J/mol×K	528.64	Joback Method
cpg	352.13	J/mol×K	561.43	Joback Method
cpg	365.78	J/mol×K	594.22	Joback Method
cpg	378.78	J/mol×K	627.01	Joback Method
cpg	391.13	J/mol×K	659.80	Joback Method
cpg	402.85	J/mol×K	692.59	Joback Method
dvisc	0.0026405	Pa×s	261.10	Joback Method

dvisc	0.0012806	Pa×s	300.23	Joback Method
dvisc	0.0007339	Pa×s	339.35	Joback Method
dvisc	0.0004718	Pa×s	378.48	Joback Method
dvisc	0.0003296	Pa×s	417.60	Joback Method
dvisc	0.0002448	Pa×s	456.73	Joback Method
dvisc	0.0001905	Pa×s	495.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R340859&Units=SI
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

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