

Furan, 2,5-diethoxytetrahydro-

Other names:	2,5-Diethoxytetrahydrofuran 2-5-Diethoxytetrahydrofuran,c&t
Inchi:	InChI=1S/C8H16O3/c1-3-9-7-5-6-8(11-7)10-4-2/h7-8H,3-6H2,1-2H3
InchiKey:	ZLKHNURELCONBB-UHFFFAOYSA-N
Formula:	C8H16O3
SMILES:	CCOC1CCC(OCC)O1
Mol. weight [g/mol]:	160.21
CAS:	3320-90-9

Physical Properties

Property code	Value	Unit	Source
gf	-250.80	kJ/mol	Joback Method
hf	-564.75	kJ/mol	Joback Method
hfus	21.84	kJ/mol	Joback Method
hvap	42.68	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.522		Crippen Method
mvol	130.330	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	1016.00		NIST Webbook
tb	443.70	K	NIST Webbook
tc	655.85	K	Joback Method
tf	257.61	K	Joback Method
vc	0.480	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	297.42	J/molxK	464.84	Joback Method
cpg	312.88	J/molxK	496.67	Joback Method
cpg	327.77	J/molxK	528.51	Joback Method
cpg	342.09	J/molxK	560.34	Joback Method
cpg	355.82	J/molxK	592.18	Joback Method
cpg	368.97	J/molxK	624.01	Joback Method

cpg	381.54	J/mol×K	655.85	Joback Method
dvisc	0.0021763	Paxs	257.61	Joback Method
dvisc	0.0012559	Paxs	292.15	Joback Method
dvisc	0.0008141	Paxs	326.69	Joback Method
dvisc	0.0005733	Paxs	361.23	Joback Method
dvisc	0.0004292	Paxs	395.76	Joback Method
dvisc	0.0003367	Paxs	430.30	Joback Method
dvisc	0.0002737	Paxs	464.84	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C3320909&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

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