Furan, tetrahydro-2,5-dimethoxy-

Other names:	Dimethoxytetrahydrofuran
	Tetrahydro-2,5-dimethoxyfuran
	2,5-Dimethoxytetrahydrofuran
	2,5-Dimethoxytetrahydrofuran,c&t
	cis,trans-2,5-Dimethoxytetrahydrofuran
	Protectol DMT
Inchi:	InChI=1S/C6H12O3/c1-7-5-3-4-6(8-2)9-5/h5-6H,3-4H2,1-2H3
InchiKey:	GFISDBXSWQMOND-UHFFFAOYSA-N
Formula:	C6H12O3
SMILES:	COC1CCC(OC)O1
Mol. weight [g/mol]:	132.16
CAS:	696-59-3

Physical Properties

Property code	Value	Unit	Source
gf	-267.64	kJ/mol	Joback Method
hf	-523.47	kJ/mol	Joback Method
hfus	16.66	kJ/mol	Joback Method
hvap	38.23	kJ/mol	Joback Method
log10ws	-0.70		Crippen Method
logp	0.742		Crippen Method
mcvol	102.150	ml/mol	McGowan Method
pc	3501.28	kPa	Joback Method
tb	418.90	K	NIST Webbook
tc	614.05	K	Joback Method
tf	235.07	K	Joback Method
vc	0.368	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.75	J/mol×K	419.08	Joback Method
cpg	226.82	J/mol×K	451.58	Joback Method
cpg	239.47	J/mol×K	484.07	Joback Method

cpg	251.67	J/mol×K	516.57	Joback Method
cpg	263.44	J/mol×K	549.06	Joback Method
cpg	274.74	J/mol×K	581.56	Joback Method
cpg	285.58	J/mol×K	614.05	Joback Method
dvisc	0.0018737	Pa×s	235.07	Joback Method
dvisc	0.0011414	Pa×s	265.74	Joback Method
dvisc	0.0007704	Pa×s	296.41	Joback Method
dvisc	0.0005597	Pa×s	327.07	Joback Method
dvisc	0.0004296	Pa×s	357.74	Joback Method
dvisc	0.0003438	Pa×s	388.41	Joback Method
dvisc	0.0002842	Pa×s	419.08	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C696593&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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