Furan, 2,5-diethyltetrahydro-

Other names:	2,5-Diethyltetrahydrofuran
	2,5-Diethyltetrahydrofurane
Inchi:	InChI=1S/C8H16O/c1-3-7-5-6-8(4-2)9-7/h7-8H,3-6H2,1-2H3
InchiKey:	YKWLEIXVUHRKEF-UHFFFAOYSA-N
Formula:	C8H16O
SMILES:	CCC1CCC(CC)O1
Mol. weight [g/mol]:	128.21
CAS:	41239-48-9

Physical Properties

Property code	Value	Unit	Source
gf	-40.80	kJ/mol	Joback Method
hf	-300.31	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	37.86	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.354		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	902.00		NIST Webbook
rinpol	898.30		NIST Webbook
rinpol	916.00		NIST Webbook
rinpol	901.00		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	884.00		NIST Webbook
rinpol	884.00		NIST Webbook
tb	420.00	K	Joback Method
tc	612.65	K	Joback Method
tf	213.15	K	Joback Method
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.73	J/mol×K	420.00	Joback Method
cpg	261.97	J/mol×K	452.11	Joback Method
cpg	277.49	J/mol×K	484.22	Joback Method
cpg	292.31	J/mol×K	516.33	Joback Method
cpg	306.43	J/mol×K	548.43	Joback Method
cpg	319.87	J/mol×K	580.54	Joback Method
cpg	332.66	J/mol×K	612.65	Joback Method
dvisc	0.0031621	Pa×s	213.15	Joback Method
dvisc	0.0016960	Pa×s	247.62	Joback Method
dvisc	0.0010592	Pa×s	282.10	Joback Method
dvisc	0.0007330	Pa×s	316.58	Joback Method
dvisc	0.0005452	Pa×s	351.05	Joback Method
dvisc	0.0004276	Pa×s	385.52	Joback Method
dvisc	0.0003490	Pa×s	420.00	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=C41239489&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
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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