Furan, 2,3-dihydro-5-(1-methylethyl)-

Inchi: InChI=1S/C7H12O/c1-6(2)7-4-3-5-8-7/h4,6H,3,5H2,1-2H3
InchiKey: KPDPOQWCIGFHQX-UHFFFAOYSA-N
Formula: C7H12O
SMILES: CC(C)C1=CCCO1
Mol. weight [g/mol]: 112.17
CAS: 38614-10-7

Physical Properties

Property code	Value	Unit	Source
gf	-15.91	kJ/mol	Joback Method
hf	-197.96	kJ/mol	Joback Method
hfus	12.04	kJ/mol	Joback Method
hvap	36.82	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.947		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	3642.13	kPa	Joback Method
tb	410.16	K	Joback Method
tc	613.90	K	Joback Method
tf	208.64	K	Joback Method
vc	0.370	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	192.84	J/mol×K	410.16	Joback Method
cpg	206.11	J/mol×K	444.12	Joback Method
cpg	218.68	J/mol×K	478.07	Joback Method
cpg	230.58	J/mol×K	512.03	Joback Method
cpg	241.83	J/mol×K	545.99	Joback Method
cpg	252.46	J/mol×K	579.95	Joback Method
cpg	262.50	J/mol×K	613.90	Joback Method
dvisc	0.0060917	Pa×s	208.64	Joback Method
dvisc	0.0026618	Pa×s	242.23	Joback Method

dvisc	0.0014229	Pa×s	275.81	Joback Method
dvisc	0.0008714	Pa×s	309.40	Joback Method
dvisc	0.0005875	Pa×s	342.99	Joback Method
dvisc	0.0004249	Pa×s	376.57	Joback Method
dvisc	0.0003241	Pa×s	410.16	Joback Method

Sources

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=C38614107&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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