Furan, 2,3-dihydro-5-(2-methylpropyl)-

Inchi: InChI=1S/C8H14O/c1-7(2)6-8-4-3-5-9-8/h4,7H,3,5-6H2,1-2H3
InchiKey: FBQBYCIPUSEWMX-UHFFFAOYSA-N
Formula: C8H14O
SMILES: CC(C)CC1=CCCO1
Mol. weight [g/mol]: 126.20
CAS: 56755-31-8

Physical Properties

Property code	Value	Unit	Source
gf	-7.49	kJ/mol	Joback Method
hf	-218.60	kJ/mol	Joback Method
hfus	14.63	kJ/mol	Joback Method
hvap	39.04	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.337		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
tb	433.04	K	Joback Method
tc	634.64	K	Joback Method
tf	219.91	K	Joback Method
vc	0.426	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.86	J/mol×K	433.04	Joback Method
cpg	297.89	J/mol×K	601.04	Joback Method
cpg	286.28	J/mol×K	567.44	Joback Method
cpg	273.99	J/mol×K	533.84	Joback Method
cpg	261.02	J/mol×K	500.24	Joback Method
cpg	247.31	J/mol×K	466.64	Joback Method
cpg	308.86	J/mol×K	634.64	Joback Method
dvisc	0.0003163	Pa×s	433.04	Joback Method
dvisc	0.0004171	Pa×s	397.52	Joback Method

dvisc	0.0005806	Pa×s	362.00	Joback Method
dvisc	0.0008685	Pa×s	326.47	Joback Method
dvisc	0.0014335	Pa×s	290.95	Joback Method
dvisc	0.0027198	Pa×s	255.43	Joback Method
dvisc	0.0063466	Pa×s	219.91	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=C56755318&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