Furan, 2,3-dihydro-3-(1-methylpropyl)-

Other names: 2,3-dihydro-3-(1-methylpropyl)furan
Inchi: InChI=1S/C8H14O/c1-3-7(2)8-4-5-9-6-8/h4-5,7-8H,3,6H2,1-2H3
InchiKey: ZFHLYRXUGVHBRR-UHFFFAOYSA-N
Formula: C8H14O
SMILES: CCC(C)C1C=COC1
Mol. weight [g/mol]: 126.20
CAS: 56805-32-4

Physical Properties

Property code	Value	Unit	Source
gf	-5.57	kJ/mol	Joback Method
hf	-227.47	kJ/mol	Joback Method
hfus	16.09	kJ/mol	Joback Method
hvap	38.07	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	2.193		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3188.33	kPa	Joback Method
rinpol	950.00		NIST Webbook
tb	423.39	K	Joback Method
tc	623.13	K	Joback Method
tf	203.15	K	Joback Method
vc	0.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.84	J/mol×K	423.39	Joback Method
cpg	300.47	J/mol×K	589.84	Joback Method
cpg	288.20	J/mol×K	556.55	Joback Method
cpg	275.23	J/mol×K	523.26	Joback Method
cpg	261.53	J/mol×K	489.97	Joback Method
cpg	247.08	J/mol×K	456.68	Joback Method
cpg	312.05	J/mol×K	623.13	Joback Method

dvisc	0.0003297	Pa×s	423.39	Joback Method
dvisc	0.0004261	Pa×s	386.68	Joback Method
dvisc	0.0005811	Pa×s	349.98	Joback Method
dvisc	0.0008521	Pa×s	313.27	Joback Method
dvisc	0.0013833	Pa×s	276.56	Joback Method
dvisc	0.0026045	Pa×s	239.86	Joback Method
dvisc	0.0061639	Pa×s	203.15	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56805324&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