

Furan, 2,3-dihydro-2,5-dimethyl-

Other names:	2,5-Dimethyl-2,3-dihydrofuran 2,3-dihydro-2,5-dimethylfuran
Inchi:	InChI=1S/C6H10O/c1-5-3-4-6(2)7-5/h3,6H,4H2,1-2H3
InchiKey:	QGSXQQMTEWPJHL-UHFFFAOYSA-N
Formula:	C6H10O
SMILES:	CC1=CCC(C)O1
Mol. weight [g/mol]:	98.14
CAS:	17108-52-0

Physical Properties

Property code	Value	Unit	Source
gf	-29.60	kJ/mol	Joback Method
hf	-192.38	kJ/mol	Joback Method
hfus	14.04	kJ/mol	Joback Method
hvap	34.67	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	1.699		Crippen Method
mvol	86.110	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	383.05	K	Joback Method
tc	583.06	K	Joback Method
tf	208.13	K	Joback Method
vc	0.320	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	155.82	J/mol×K	383.05	Joback Method
cpg	209.10	J/mol×K	549.72	Joback Method
cpg	199.48	J/mol×K	516.39	Joback Method
cpg	189.36	J/mol×K	483.05	Joback Method
cpg	178.72	J/mol×K	449.72	Joback Method
cpg	167.55	J/mol×K	416.38	Joback Method
cpg	218.22	J/mol×K	583.06	Joback Method

dvisc	0.0003089	Paxs	383.05	Joback Method
dvisc	0.0003722	Paxs	353.90	Joback Method
dvisc	0.0004637	Paxs	324.74	Joback Method
dvisc	0.0006032	Paxs	295.59	Joback Method
dvisc	0.0008312	Paxs	266.44	Joback Method
dvisc	0.0012392	Paxs	237.28	Joback Method
dvisc	0.0020663	Paxs	208.13	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=C17108520&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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