

# Diethyl hexahydrofuro[3,2-b]furan-3,6-diyl dicarbonate

Inchi:	InChI=1S/C12H18O8/c1-3-15-11(13)19-7-5-17-10-8(6-18-9(7)10)20-12(14)16-4-2/h7-10H
InchiKey:	XCUWNMJCFMGNX-UHFFFAOYSA-N
Formula:	C12H18O8
SMILES:	CCOC(=O)OC1COC2C(OC(=O)OCC)COC12
Mol. weight [g/mol]:	290.27

## Physical Properties

Property code	Value	Unit	Source
gf	-718.04	kJ/mol	Joback Method
hf	-1216.45	kJ/mol	Joback Method
hfus	44.96	kJ/mol	Joback Method
hvap	74.01	kJ/mol	Joback Method
log10ws	-1.11		Crippen Method
logp	0.867		Crippen Method
mcvol	196.580	ml/mol	McGowan Method
pc	2298.11	kPa	Joback Method
rinsol	1937.00		NIST Webbook
tb	737.96	K	Joback Method
tc	942.94	K	Joback Method
tf	487.28	K	Joback Method
vc	0.730	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	615.18	J/molxK	737.96	Joback Method
cpg	630.57	J/molxK	772.12	Joback Method
cpg	644.91	J/molxK	806.29	Joback Method
cpg	658.19	J/molxK	840.45	Joback Method
cpg	670.40	J/molxK	874.61	Joback Method
cpg	681.52	J/molxK	908.77	Joback Method
cpg	691.55	J/molxK	942.94	Joback Method
dvisc	0.0015531	Paxs	487.28	Joback Method
dvisc	0.0011649	Paxs	529.06	Joback Method

dvisc	0.0009114	Paxs	570.84	Joback Method
dvisc	0.0007372	Paxs	612.62	Joback Method
dvisc	0.0006128	Paxs	654.40	Joback Method
dvisc	0.0005207	Paxs	696.18	Joback Method
dvisc	0.0004508	Paxs	737.96	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373805&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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