

Ethyl (Z)-non-3-enyl carbonate

Inchi:	InChI=1S/C12H22O3/c1-3-5-6-7-8-9-10-11-15-12(13)14-4-2/h8-9H,3-7,10-11H2,1-2H3/b
InchiKey:	VAXPBZYLMQJDOP-HJWRWDBZSA-N
Formula:	C12H22O3
SMILES:	CCCCC=CCCOC(=O)OCC
Mol. weight [g/mol]:	214.30

Physical Properties

Property code	Value	Unit	Source
gf	-208.54	kJ/mol	Joback Method
hf	-550.81	kJ/mol	Joback Method
hfus	31.01	kJ/mol	Joback Method
hvap	53.83	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	3.686		Crippen Method
mcvol	188.950	ml/mol	McGowan Method
pc	1908.57	kPa	Joback Method
rinpol	1457.00		NIST Webbook
rinpol	1457.00		NIST Webbook
tb	576.83	K	Joback Method
tc	752.69	K	Joback Method
tf	314.31	K	Joback Method
vc	0.730	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.93	J/mol×K	576.83	Joback Method
cpg	488.01	J/mol×K	606.14	Joback Method
cpg	502.46	J/mol×K	635.45	Joback Method
cpg	516.30	J/mol×K	664.76	Joback Method
cpg	529.53	J/mol×K	694.07	Joback Method
cpg	542.17	J/mol×K	723.38	Joback Method
cpg	554.23	J/mol×K	752.69	Joback Method
dvisc	0.0020204	Paxs	314.31	Joback Method

dvisc	0.0009627	Paxs	358.06	Joback Method
dvisc	0.0005390	Paxs	401.82	Joback Method
dvisc	0.0003382	Paxs	445.57	Joback Method
dvisc	0.0002307	Paxs	489.32	Joback Method
dvisc	0.0001675	Paxs	533.08	Joback Method
dvisc	0.0001277	Paxs	576.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373837&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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

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