

Ethyl (Z)-hex-3-enyl carbonate

Inchi:	InChI=1S/C9H16O3/c1-3-5-6-7-8-12-9(10)11-4-2/h5-6H,3-4,7-8H2,1-2H3/b6-5-
InchiKey:	QVGDVJSCRGIGEX-WAYWQWQTSA-N
Formula:	C9H16O3
SMILES:	CCC=CCCOC(=O)OCC
Mol. weight [g/mol]:	172.22

Physical Properties

Property code	Value	Unit	Source
gf	-233.80	kJ/mol	Joback Method
hf	-488.89	kJ/mol	Joback Method
hfus	23.24	kJ/mol	Joback Method
hvap	47.15	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.516		Crippen Method
mcvol	146.680	ml/mol	McGowan Method
pc	2497.50	kPa	Joback Method
rinpol	1171.00		NIST Webbook
tb	508.19	K	Joback Method
tc	688.91	K	Joback Method
tf	280.50	K	Joback Method
vc	0.561	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.50	J/mol×K	508.19	Joback Method
cpg	343.19	J/mol×K	538.31	Joback Method
cpg	355.40	J/mol×K	568.43	Joback Method
cpg	367.12	J/mol×K	598.55	Joback Method
cpg	378.36	J/mol×K	628.67	Joback Method
cpg	389.12	J/mol×K	658.79	Joback Method
cpg	399.42	J/mol×K	688.91	Joback Method
dvisc	0.0022388	Paxs	280.50	Joback Method
dvisc	0.0011228	Paxs	318.45	Joback Method

dvisc	0.0006522	Paxs	356.40	Joback Method
dvisc	0.0004206	Paxs	394.35	Joback Method
dvisc	0.0002930	Paxs	432.29	Joback Method
dvisc	0.0002163	Paxs	470.24	Joback Method
dvisc	0.0001672	Paxs	508.19	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U373836&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

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