

Ethyl octan-2-yl carbonate

Inchi:	InChI=1S/C11H22O3/c1-4-6-7-8-9-10(3)14-11(12)13-5-2/h10H,4-9H2,1-3H3
InchiKey:	MOJYDCHARQQDEP-UHFFFAOYSA-N
Formula:	C11H22O3
SMILES:	CCCCCCC(C)OC(=O)OCC
Mol. weight [g/mol]:	202.29

Physical Properties

Property code	Value	Unit	Source
gf	-299.62	kJ/mol	Joback Method
hf	-652.67	kJ/mol	Joback Method
hfus	24.70	kJ/mol	Joback Method
hvap	51.26	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.518		Crippen Method
mcvol	179.160	ml/mol	McGowan Method
pc	1998.33	kPa	Joback Method
rinpol	1296.00		NIST Webbook
rinpol	1296.00		NIST Webbook
tb	549.35	K	Joback Method
tc	723.04	K	Joback Method
tf	293.12	K	Joback Method
vc	0.688	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.54	J/molxK	549.35	Joback Method
cpg	512.28	J/molxK	694.09	Joback Method
cpg	499.46	J/molxK	665.14	Joback Method
cpg	486.07	J/molxK	636.19	Joback Method
cpg	472.13	J/molxK	607.25	Joback Method
cpg	457.61	J/molxK	578.30	Joback Method
cpg	524.54	J/molxK	723.04	Joback Method
dvisc	0.0001559	Paxs	549.35	Joback Method

dvisc	0.0002079	Paxs	506.65	Joback Method
dvisc	0.0002922	Paxs	463.94	Joback Method
dvisc	0.0004401	Paxs	421.24	Joback Method
dvisc	0.0007270	Paxs	378.53	Joback Method
dvisc	0.0013647	Paxs	335.82	Joback Method
dvisc	0.0030774	Paxs	293.12	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=U373800&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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