

Ethyl undecyl carbonate

Inchi:	InChI=1S/C14H28O3/c1-3-5-6-7-8-9-10-11-12-13-17-14(15)16-4-2/h3-13H2,1-2H3
InchiKey:	RHEHVRZMTGZBLY-UHFFFAOYSA-N
Formula:	C14H28O3
SMILES:	CCCCCCCCCOC(=O)OCC
Mol. weight [g/mol]:	244.37

Physical Properties

Property code	Value	Unit	Source
gf	-271.92	kJ/mol	Joback Method
hf	-709.31	kJ/mol	Joback Method
hfus	35.99	kJ/mol	Joback Method
hvap	58.32	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	4.690		Crippen Method
mcvol	221.430	ml/mol	McGowan Method
pc	1558.58	kPa	Joback Method
rinpol	1673.00		NIST Webbook
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tb	618.43	K	Joback Method
tc	786.56	K	Joback Method
tf	341.93	K	Joback Method
vc	0.862	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.50	J/molxK	618.43	Joback Method
cpg	673.19	J/molxK	758.53	Joback Method
cpg	659.17	J/molxK	730.51	Joback Method
cpg	644.50	J/molxK	702.49	Joback Method
cpg	629.16	J/molxK	674.47	Joback Method
cpg	613.16	J/molxK	646.45	Joback Method
cpg	686.56	J/molxK	786.56	Joback Method
dvisc	0.0001203	Paxs	618.43	Joback Method

dvisc	0.0001585	Paxs	572.35	Joback Method
dvisc	0.0002192	Paxs	526.26	Joback Method
dvisc	0.0003225	Paxs	480.18	Joback Method
dvisc	0.0005153	Paxs	434.10	Joback Method
dvisc	0.0009201	Paxs	388.01	Joback Method
dvisc	0.0019209	Paxs	341.93	Joback Method

Sources

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=U373795&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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