

# Propyl undecyl carbonate

<b>Inchi:</b>	InChI=1S/C15H30O3/c1-3-5-6-7-8-9-10-11-12-14-18-15(16)17-13-4-2/h3-14H2,1-2H3
<b>InchiKey:</b>	UYFJOKZJMZSUEU-UHFFFAOYSA-N
<b>Formula:</b>	C15H30O3
<b>SMILES:</b>	CCCCCCCCCOC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	258.40

## Physical Properties

Property code	Value	Unit	Source
gf	-263.50	kJ/mol	Joback Method
hf	-729.95	kJ/mol	Joback Method
hfus	38.58	kJ/mol	Joback Method
hvap	60.55	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	5.080		Crippen Method
mvol	235.520	ml/mol	McGowan Method
pc	1446.83	kPa	Joback Method
rinpol	1768.00		NIST Webbook
rinpol	1768.00		NIST Webbook
tb	641.31	K	Joback Method
tc	809.22	K	Joback Method
tf	353.20	K	Joback Method
vc	0.917	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	650.94	J/molxK	641.31	Joback Method
cpg	729.86	J/molxK	781.24	Joback Method
cpg	715.47	J/molxK	753.25	Joback Method
cpg	700.39	J/molxK	725.27	Joback Method
cpg	684.61	J/molxK	697.28	Joback Method
cpg	668.13	J/molxK	669.30	Joback Method
cpg	743.56	J/molxK	809.22	Joback Method
dvisc	0.0001068	Paxs	641.31	Joback Method

dvisc	0.0001412	Paxs	593.29	Joback Method
dvisc	0.0001962	Paxs	545.27	Joback Method
dvisc	0.0002903	Paxs	497.25	Joback Method
dvisc	0.0004671	Paxs	449.24	Joback Method
dvisc	0.0008424	Paxs	401.22	Joback Method
dvisc	0.0017833	Paxs	353.20	Joback Method

## Sources

<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=U373847&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373847&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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