

# Dodecyl propyl carbonate

<b>Inchi:</b>	InChI=1S/C16H32O3/c1-3-5-6-7-8-9-10-11-12-13-15-19-16(17)18-14-4-2/h3-15H2,1-2H3
<b>InchiKey:</b>	KRFCCBNARQVDNQ-UHFFFAOYSA-N
<b>Formula:</b>	C16H32O3
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	272.42
<b>CAS:</b>	959272-51-6

## Physical Properties

Property code	Value	Unit	Source
gf	-255.08	kJ/mol	Joback Method
hf	-750.59	kJ/mol	Joback Method
hfus	41.17	kJ/mol	Joback Method
hvap	62.78	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	5.470		Crippen Method
mcvol	249.610	ml/mol	McGowan Method
pc	1346.69	kPa	Joback Method
rinpol	1868.00		NIST Webbook
tb	664.19	K	Joback Method
tc	832.28	K	Joback Method
tf	364.47	K	Joback Method
vc	0.974	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	706.72	J/molxK	664.19	Joback Method
cpg	787.68	J/molxK	804.26	Joback Method
cpg	772.96	J/molxK	776.25	Joback Method
cpg	757.52	J/molxK	748.23	Joback Method
cpg	741.34	J/molxK	720.22	Joback Method
cpg	724.41	J/molxK	692.20	Joback Method
cpg	801.67	J/molxK	832.28	Joback Method
dvisc	0.0000944	Paxs	664.19	Joback Method

dvisc	0.0001253	Paxs	614.24	Joback Method
dvisc	0.0001747	Paxs	564.28	Joback Method
dvisc	0.0002598	Paxs	514.33	Joback Method
dvisc	0.0004210	Paxs	464.38	Joback Method
dvisc	0.0007663	Paxs	414.42	Joback Method
dvisc	0.0016436	Paxs	364.47	Joback Method

## Sources

<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=C959272516&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C959272516&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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