

# 2-(Nonanoyloxy)propane-1,3-diyl dioctanoate

**Inchi:** InChI=1S/C28H52O6/c1-4-7-10-13-16-19-22-28(31)34-25(23-32-26(29)20-17-14-11-8-5-  
**InchiKey:** PVGJWYNUBYUGJV-UHFFFAOYSA-N  
**Formula:** C28H52O6  
**SMILES:** CCCCCCCC(=O)OC(COC(=O)CCCCCCC)COC(=O)CCCCCCC  
**Mol. weight [g/mol]:** 484.71

## Physical Properties

Property code	Value	Unit	Source
gf	-519.32	kJ/mol	Joback Method
hf	-1360.93	kJ/mol	Joback Method
hfus	73.11	kJ/mol	Joback Method
hvap	105.00	kJ/mol	Joback Method
log10ws	-8.24		Crippen Method
logp	7.456		Crippen Method
mvol	427.700	ml/mol	McGowan Method
pc	707.33	kPa	Joback Method
rinpol	3042.60		NIST Webbook
rinpol	3042.60		NIST Webbook
tb	1068.47	K	Joback Method
tc	1339.10	K	Joback Method
tf	606.80	K	Joback Method
vc	1.669	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1521.90	J/molxK	1068.47	Joback Method
cpg	1592.11	J/molxK	1294.00	Joback Method
cpg	1583.31	J/molxK	1248.89	Joback Method
cpg	1571.96	J/molxK	1203.79	Joback Method
cpg	1557.99	J/molxK	1158.68	Joback Method
cpg	1541.33	J/molxK	1113.58	Joback Method
cpg	1598.43	J/molxK	1339.10	Joback Method
dvisc	0.0000097	Paxs	1068.47	Joback Method

dvisc	0.0000130	Paxs	991.52	Joback Method
dvisc	0.0000184	Paxs	914.58	Joback Method
dvisc	0.0000277	Paxs	837.63	Joback Method
dvisc	0.0000454	Paxs	760.69	Joback Method
dvisc	0.0000832	Paxs	683.75	Joback Method
dvisc	0.0001776	Paxs	606.80	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=U412804&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U412804&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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