

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

<b>Inchi:</b>	InChI=1S/C26H48O6/c1-4-7-10-13-16-18-24(27)30-21-23(32-26(29)20-15-12-9-6-3)22-3
<b>InchiKey:</b>	DGYZDFDBZWEASX-UHFFFAOYSA-N
<b>Formula:</b>	C26H48O6
<b>SMILES:</b>	CCCCCCCC(=O)OCC(COC(=O)CCCCCCC)OC(=O)CCCCC
<b>Mol. weight [g/mol]:</b>	456.66
<b>CAS:</b>	1204770-16-0

## Physical Properties

Property code	Value	Unit	Source
gf	-536.16	kJ/mol	Joback Method
hf	-1319.65	kJ/mol	Joback Method
hfus	67.93	kJ/mol	Joback Method
hvap	100.55	kJ/mol	Joback Method
log10ws	-7.41		Crippen Method
logp	6.676		Crippen Method
mvol	399.520	ml/mol	McGowan Method
pc	785.51	kPa	Joback Method
rinpol	2842.70		NIST Webbook
rinpol	2842.70		NIST Webbook
tb	1022.71	K	Joback Method
tc	1267.51	K	Joback Method
tf	584.26	K	Joback Method
vc	1.558	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1395.14	J/molxK	1022.71	Joback Method
cpg	1413.78	J/molxK	1063.51	Joback Method
cpg	1430.19	J/molxK	1104.31	Joback Method
cpg	1444.44	J/molxK	1145.11	Joback Method
cpg	1456.56	J/molxK	1185.91	Joback Method
cpg	1466.58	J/molxK	1226.71	Joback Method
cpg	1474.57	J/molxK	1267.51	Joback Method

dvisc	0.0002341	Paxs	584.26	Joback Method
dvisc	0.0001114	Paxs	657.34	Joback Method
dvisc	0.0000615	Paxs	730.41	Joback Method
dvisc	0.0000379	Paxs	803.49	Joback Method
dvisc	0.0000253	Paxs	876.56	Joback Method
dvisc	0.0000179	Paxs	949.63	Joback Method
dvisc	0.0000134	Paxs	1022.71	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1204770160&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1204770160&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>
<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>

## 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>mvol:</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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