

# 2-(Decanoyloxy)-3-(octanoyloxy)propyl benzoate

Inchi:	InChI=1S/C28H44O6/c1-3-5-7-9-10-12-17-21-27(30)34-25(22-32-26(29)20-16-11-8-6-4-2
InchiKey:	UHMVKVMCXUDQLN-UHFFFAOYSA-N
Formula:	C28H44O6
SMILES:	CCCCCCCCC(=O)OC(COC(=O)CCCCC)COC(=O)c1ccccc1
Mol. weight [g/mol]:	476.65

## Physical Properties

Property code	Value	Unit	Source
gf	-406.91	kJ/mol	Joback Method
hf	-1124.40	kJ/mol	Joback Method
hfus	67.16	kJ/mol	Joback Method
hvap	107.28	kJ/mol	Joback Method
log10ws	-7.92		Crippen Method
logp	6.800		Crippen Method
mvol	403.940	ml/mol	McGowan Method
pc	850.48	kPa	Joback Method
rinpol	3207.50		NIST Webbook
rinpol	3207.50		NIST Webbook
tb	1095.15	K	Joback Method
tc	1352.51	K	Joback Method
tf	633.22	K	Joback Method
vc	1.562	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1409.47	J/molxK	1095.15	Joback Method
cpg	1461.08	J/molxK	1309.62	Joback Method
cpg	1454.98	J/molxK	1266.72	Joback Method
cpg	1446.84	J/molxK	1223.83	Joback Method
cpg	1436.60	J/molxK	1180.94	Joback Method
cpg	1424.16	J/molxK	1138.04	Joback Method
cpg	1465.21	J/molxK	1352.51	Joback Method
dvisc	0.0000100	Paxs	1095.15	Joback Method

dvisc	0.0000133	Paxs	1018.16	Joback Method
dvisc	0.0000185	Paxs	941.17	Joback Method
dvisc	0.0000274	Paxs	864.19	Joback Method
dvisc	0.0000437	Paxs	787.20	Joback Method
dvisc	0.0000771	Paxs	710.21	Joback Method
dvisc	0.0001561	Paxs	633.22	Joback Method

## Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U413788&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U413788&amp;Units=SI</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

Latest version available from:

<https://www.cheméo.com/cid/87-843-0/2-Decanoyloxy-3-octanoyloxy-propyl-benzoate.pdf>

Generated by Cheméo on 2024-04-19 13:57:13.257475372 +0000 UTC m=+15824282.178052687.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.