

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

<b>Inchi:</b>	InChI=1S/C26H40O6/c1-3-5-7-9-14-18-24(27)30-20-23(32-25(28)19-15-10-8-6-4-2)21-3
<b>InchiKey:</b>	CAVVDWNDQLBBCW-UHFFFAOYSA-N
<b>Formula:</b>	C26H40O6
<b>SMILES:</b>	CCCCCCCC(=O)OCC(COC(=O)c1ccccc1)OC(=O)CCCCCCC
<b>Mol. weight [g/mol]:</b>	448.59

## Physical Properties

Property code	Value	Unit	Source
gf	-423.75	kJ/mol	Joback Method
hf	-1083.12	kJ/mol	Joback Method
hfus	61.98	kJ/mol	Joback Method
hvap	102.83	kJ/mol	Joback Method
log10ws	-7.09		Crippen Method
logp	6.019		Crippen Method
mcvol	375.760	ml/mol	McGowan Method
pc	954.37	kPa	Joback Method
rinpola	3016.40		NIST Webbook
rinpola	3016.40		NIST Webbook
tb	1049.39	K	Joback Method
tc	1288.14	K	Joback Method
tf	610.68	K	Joback Method
vc	1.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1285.97	J/molxK	1049.39	Joback Method
cpg	1300.44	J/molxK	1089.18	Joback Method
cpg	1312.99	J/molxK	1128.97	Joback Method
cpg	1323.67	J/molxK	1168.77	Joback Method
cpg	1332.53	J/molxK	1208.56	Joback Method
cpg	1339.63	J/molxK	1248.35	Joback Method
cpg	1345.01	J/molxK	1288.14	Joback Method
dvisc	0.0002043	Paxs	610.68	Joback Method

dvisc	0.0001026	Paxs	683.80	Joback Method
dvisc	0.0000588	Paxs	756.92	Joback Method
dvisc	0.0000372	Paxs	830.03	Joback Method
dvisc	0.0000254	Paxs	903.15	Joback Method
dvisc	0.0000183	Paxs	976.27	Joback Method
dvisc	0.0000138	Paxs	1049.39	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=U413809&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U413809&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>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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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