

# Sebacic acid, octyl 2-phenylphenyl ester

<b>Inchi:</b>	InChI=1S/C30H42O4/c1-2-3-4-5-10-18-25-33-29(31)23-14-8-6-7-9-15-24-30(32)34-28-22
<b>InchiKey:</b>	RCMVDPKDZPTNSI-UHFFFAOYSA-N
<b>Formula:</b>	C30H42O4
<b>SMILES:</b>	CCCCCCCCOC(=O)CCCCCCCC(=O)Oc1ccccc1-c1ccccc1
<b>Mol. weight [g/mol]:</b>	466.65

## Physical Properties

Property code	Value	Unit	Source
gf	-50.93	kJ/mol	Joback Method
hf	-690.54	kJ/mol	Joback Method
hfus	66.72	kJ/mol	Joback Method
hvap	105.90	kJ/mol	Joback Method
log10ws	-9.95		Crippen Method
logp	8.284		Crippen Method
mcvol	400.920	ml/mol	McGowan Method
pc	886.30	kPa	Joback Method
rinqol	3495.00		NIST Webbook
tb	1096.72	K	Joback Method
tc	1345.52	K	Joback Method
tf	637.54	K	Joback Method
vc	1.548	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.72	J/molxK	1096.72	Joback Method
cpg	1443.90	J/molxK	1304.05	Joback Method
cpg	1435.15	J/molxK	1262.58	Joback Method
cpg	1424.97	J/molxK	1221.12	Joback Method
cpg	1413.23	J/molxK	1179.65	Joback Method
cpg	1399.85	J/molxK	1138.19	Joback Method
cpg	1451.30	J/molxK	1345.52	Joback Method
dvisc	0.0000128	Paxs	1096.72	Joback Method
dvisc	0.0000166	Paxs	1020.19	Joback Method

dvisc	0.0000227	Paxs	943.66	Joback Method
dvisc	0.0000326	Paxs	867.13	Joback Method
dvisc	0.0000503	Paxs	790.60	Joback Method
dvisc	0.0000852	Paxs	714.07	Joback Method
dvisc	0.0001638	Paxs	637.54	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.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=U355069&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355069&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

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