

# Succinic acid, dodec-2-en-1-yl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C29H38O5/c1-2-3-4-5-6-7-8-9-10-14-22-32-28(30)20-21-29(31)33-24-25-16-15
<b>InchiKey:</b>	HKUSUYGPOQCWSP-GXDHUFHOSA-N
<b>Formula:</b>	C29H38O5
<b>SMILES:</b>	CCCCCCCCC=CCOC(=O)CCC(=O)OCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	466.61

## Physical Properties

Property code	Value	Unit	Source
gf	-84.13	kJ/mol	Joback Method
hf	-684.90	kJ/mol	Joback Method
hfus	65.52	kJ/mol	Joback Method
hvap	106.04	kJ/mol	Joback Method
log10ws	-8.26		Crippen Method
logp	7.542		Crippen Method
mvol	388.400	ml/mol	McGowan Method
pc	959.69	kPa	Joback Method
rinpol	3449.00		NIST Webbook
rinpol	3449.00		NIST Webbook
tb	1100.42	K	Joback Method
tc	1348.45	K	Joback Method
tf	643.42	K	Joback Method
vc	1.490	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1319.38	J/molxK	1100.42	Joback Method
cpg	1372.39	J/molxK	1307.11	Joback Method
cpg	1364.77	J/molxK	1265.78	Joback Method
cpg	1355.75	J/molxK	1224.44	Joback Method
cpg	1345.25	J/molxK	1183.10	Joback Method
cpg	1333.16	J/molxK	1141.76	Joback Method
cpg	1378.70	J/molxK	1348.45	Joback Method
dvisc	0.0000096	Paxs	1100.42	Joback Method

dvisc	0.0000125	Paxs	1024.25	Joback Method
dvisc	0.0000170	Paxs	948.09	Joback Method
dvisc	0.0000243	Paxs	871.92	Joback Method
dvisc	0.0000373	Paxs	795.75	Joback Method
dvisc	0.0000626	Paxs	719.59	Joback Method
dvisc	0.0001187	Paxs	643.42	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=U390381&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390381&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>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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