

# Sebacic acid, decyl 3-phenylallyl ester

<b>Inchi:</b>	InChI=1S/C29H46O4/c1-2-3-4-5-6-9-12-18-25-32-28(30)23-16-10-7-8-11-17-24-29(31)33
<b>InchiKey:</b>	AGHOMVBRWVWVJI-ZBJSNUHESA-N
<b>Formula:</b>	C29H46O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCCCCCCC(=O)OCC=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	458.67

## Physical Properties

Property code	Value	Unit	Source
gf	-81.91	kJ/mol	Joback Method
hf	-777.74	kJ/mol	Joback Method
hfus	70.68	kJ/mol	Joback Method
hvap	100.69	kJ/mol	Joback Method
log10ws	-8.81		Crippen Method
logp	8.048		Crippen Method
mcvol	406.290	ml/mol	McGowan Method
pc	803.88	kPa	Joback Method
rinqol	3535.00		NIST Webbook
tb	1046.34	K	Joback Method
tc	1287.17	K	Joback Method
tf	582.25	K	Joback Method
vc	1.579	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1405.04	J/molxK	1046.34	Joback Method
cpg	1483.13	J/molxK	1247.03	Joback Method
cpg	1470.30	J/molxK	1206.89	Joback Method
cpg	1456.18	J/molxK	1166.75	Joback Method
cpg	1440.67	J/molxK	1126.62	Joback Method
cpg	1423.66	J/molxK	1086.48	Joback Method
cpg	1494.78	J/molxK	1287.17	Joback Method
dvisc	0.0000123	Paxs	1046.34	Joback Method
dvisc	0.0000164	Paxs	968.99	Joback Method

dvisc	0.0000230	Paxs	891.64	Joback Method
dvisc	0.0000344	Paxs	814.29	Joback Method
dvisc	0.0000560	Paxs	736.95	Joback Method
dvisc	0.0001024	Paxs	659.60	Joback Method
dvisc	0.0002195	Paxs	582.25	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=U355896&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355896&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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