

# Sebacic acid, pentyl 3-phenylallyl ester

<b>Inchi:</b>	InChI=1S/C24H36O4/c1-2-3-13-20-27-23(25)18-11-6-4-5-7-12-19-24(26)28-21-14-17-22
<b>InchiKey:</b>	REOLQHOZIHRLRJ-SAPNQHFASA-N
<b>Formula:</b>	C24H36O4
<b>SMILES:</b>	CCCCCOC(=O)CCCCCCCC(=O)OCC=Cc1cccc1
<b>Mol. weight [g/mol]:</b>	388.54

## Physical Properties

Property code	Value	Unit	Source
gf	-124.01	kJ/mol	Joback Method
hf	-674.54	kJ/mol	Joback Method
hfus	57.73	kJ/mol	Joback Method
hvap	89.56	kJ/mol	Joback Method
log10ws	-6.72		Crippen Method
logp	6.097		Crippen Method
mcvol	335.840	ml/mol	McGowan Method
pc	1077.10	kPa	Joback Method
rinsol	3010.00		NIST Webbook
tb	931.94	K	Joback Method
tc	1142.39	K	Joback Method
tf	525.90	K	Joback Method
vc	1.300	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1092.12	J/molxK	931.94	Joback Method
cpg	1108.84	J/molxK	967.01	Joback Method
cpg	1124.33	J/molxK	1002.09	Joback Method
cpg	1138.65	J/molxK	1037.16	Joback Method
cpg	1151.84	J/molxK	1072.24	Joback Method
cpg	1163.98	J/molxK	1107.31	Joback Method
cpg	1175.11	J/molxK	1142.39	Joback Method
dvisc	0.0004125	Paxs	525.90	Joback Method
dvisc	0.0002010	Paxs	593.57	Joback Method

dvisc	0.0001135	Paxs	661.25	Joback Method
dvisc	0.0000712	Paxs	728.92	Joback Method
dvisc	0.0000484	Paxs	796.59	Joback Method
dvisc	0.0000349	Paxs	864.27	Joback Method
dvisc	0.0000264	Paxs	931.94	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355890&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>
<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>

## 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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