

# Sebacic acid, isohexyl 3-phenylpropyl ester

<b>Inchi:</b>	InChI=1S/C25H40O4/c1-22(2)14-12-20-28-24(26)18-10-5-3-4-6-11-19-25(27)29-21-13-1
<b>InchiKey:</b>	JPUQHBNBJJZGU-UHFFFAOYSA-N
<b>Formula:</b>	C25H40O4
<b>SMILES:</b>	CC(C)CCCOC(=O)CCCCCCCC(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	404.58

## Physical Properties

Property code	Value	Unit	Source
gf	-198.25	kJ/mol	Joback Method
hf	-817.68	kJ/mol	Joback Method
hfus	56.60	kJ/mol	Joback Method
hvap	91.44	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	6.263		Crippen Method
mvol	354.230	ml/mol	McGowan Method
pc	984.55	kPa	Joback Method
rinpol	3045.00		NIST Webbook
rinpol	3045.00		NIST Webbook
tb	950.22	K	Joback Method
tc	1163.44	K	Joback Method
tf	527.25	K	Joback Method
vc	1.369	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1182.25	J/molxK	950.22	Joback Method
cpg	1199.60	J/molxK	985.76	Joback Method
cpg	1215.52	J/molxK	1021.29	Joback Method
cpg	1230.06	J/molxK	1056.83	Joback Method
cpg	1243.26	J/molxK	1092.36	Joback Method
cpg	1255.17	J/molxK	1127.90	Joback Method
cpg	1265.85	J/molxK	1163.44	Joback Method
dvisc	0.0004436	Paxs	527.25	Joback Method

dvisc	0.0002040	Paxs	597.75	Joback Method
dvisc	0.0001106	Paxs	668.24	Joback Method
dvisc	0.0000673	Paxs	738.73	Joback Method
dvisc	0.0000447	Paxs	809.23	Joback Method
dvisc	0.0000317	Paxs	879.72	Joback Method
dvisc	0.0000237	Paxs	950.22	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=U354389&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354389&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>

## 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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