

# Sebacic acid, heptyl 2-phenoxyethyl ester

<b>Inchi:</b>	InChI=1S/C25H40O5/c1-2-3-4-9-15-20-29-24(26)18-13-7-5-6-8-14-19-25(27)30-22-21-28
<b>InchiKey:</b>	YHJAQEDFWIYTIE-UHFFFAOYSA-N
<b>Formula:</b>	C25H40O5
<b>SMILES:</b>	CCCCCCCOC(=O)CCCCCCCC(=O)OCCOc1ccccc1
<b>Mol. weight [g/mol]:</b>	420.58

## Physical Properties

Property code	Value	Unit	Source
gf	-300.81	kJ/mol	Joback Method
hf	-944.62	kJ/mol	Joback Method
hfus	61.31	kJ/mol	Joback Method
hvap	94.24	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	6.243		Crippen Method
mvol	360.100	ml/mol	McGowan Method
pc	969.28	kPa	Joback Method
rinpol	3050.00		NIST Webbook
rinpol	3050.00		NIST Webbook
tb	973.08	K	Joback Method
tc	1191.68	K	Joback Method
tf	564.48	K	Joback Method
vc	1.393	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1211.60	J/molxK	973.08	Joback Method
cpg	1279.52	J/molxK	1155.25	Joback Method
cpg	1269.00	J/molxK	1118.82	Joback Method
cpg	1256.98	J/molxK	1082.38	Joback Method
cpg	1243.44	J/molxK	1045.95	Joback Method
cpg	1228.33	J/molxK	1009.51	Joback Method
cpg	1288.58	J/molxK	1191.68	Joback Method
dvisc	0.0000191	Paxs	973.08	Joback Method

dvisc	0.0000252	Paxs	904.98	Joback Method
dvisc	0.0000347	Paxs	836.88	Joback Method
dvisc	0.0000505	Paxs	768.78	Joback Method
dvisc	0.0000792	Paxs	700.68	Joback Method
dvisc	0.0001368	Paxs	632.58	Joback Method
dvisc	0.0002695	Paxs	564.48	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=U380785&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380785&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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