

# Sebacic acid, isobutyl 4-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C27H36O5/c1-22(2)20-30-26(28)14-10-5-3-4-6-11-15-27(29)31-21-23-16-18-2
<b>InchiKey:</b>	XUNJNWYFEMJHNK-UHFFFAOYSA-N
<b>Formula:</b>	C27H36O5
<b>SMILES:</b>	CC(C)COC(=O)CCCCCCCC(=O)OCc1ccc(Oc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	440.57

## Physical Properties

Property code	Value	Unit	Source
gf	-183.63	kJ/mol	Joback Method
hf	-766.12	kJ/mol	Joback Method
hfus	56.62	kJ/mol	Joback Method
hvap	101.24	kJ/mol	Joback Method
log10ws	-7.33		Crippen Method
logp	6.842		Crippen Method
mvol	364.520	ml/mol	McGowan Method
pc	1054.14	kPa	Joback Method
rinpol	3297.00		NIST Webbook
tb	1050.06	K	Joback Method
tc	1285.62	K	Joback Method
tf	610.96	K	Joback Method
vc	1.391	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1226.04	J/molxK	1050.06	Joback Method
cpg	1276.07	J/molxK	1246.36	Joback Method
cpg	1269.37	J/molxK	1207.10	Joback Method
cpg	1261.07	J/molxK	1167.84	Joback Method
cpg	1251.12	J/molxK	1128.58	Joback Method
cpg	1239.46	J/molxK	1089.32	Joback Method
cpg	1281.23	J/molxK	1285.62	Joback Method
dvisc	0.0000135	Paxs	1050.06	Joback Method
dvisc	0.0000177	Paxs	976.88	Joback Method

dvisc	0.0000242	Paxs	903.69	Joback Method
dvisc	0.0000349	Paxs	830.51	Joback Method
dvisc	0.0000542	Paxs	757.33	Joback Method
dvisc	0.0000922	Paxs	684.14	Joback Method
dvisc	0.0001782	Paxs	610.96	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355038&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355038&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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