

# Adipic acid, isobutyl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C23H28O5/c1-18(2)16-26-22(24)13-6-7-14-23(25)27-17-19-9-8-12-21(15-19)2
<b>InchiKey:</b>	JVWYSYCCKHZVMA-UHFFFAOYSA-N
<b>Formula:</b>	C23H28O5
<b>SMILES:</b>	CC(C)COC(=O)CCCC(=O)OCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	384.47

## Physical Properties

Property code	Value	Unit	Source
gf	-217.31	kJ/mol	Joback Method
hf	-683.56	kJ/mol	Joback Method
hfus	46.26	kJ/mol	Joback Method
hvap	92.34	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.282		Crippen Method
mcvol	308.160	ml/mol	McGowan Method
pc	1375.82	kPa	Joback Method
rinqol	2827.00		NIST Webbook
tb	958.54	K	Joback Method
tc	1183.12	K	Joback Method
tf	565.88	K	Joback Method
vc	1.167	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	984.98	J/molxK	958.54	Joback Method
cpg	1037.98	J/molxK	1145.69	Joback Method
cpg	1030.27	J/molxK	1108.26	Joback Method
cpg	1021.15	J/molxK	1070.83	Joback Method
cpg	1010.58	J/molxK	1033.40	Joback Method
cpg	998.54	J/molxK	995.97	Joback Method
cpg	1044.31	J/molxK	1183.12	Joback Method
dvisc	0.0000249	Paxs	958.54	Joback Method
dvisc	0.0000323	Paxs	893.10	Joback Method

dvisc	0.0000436	Paxs	827.65	Joback Method
dvisc	0.0000619	Paxs	762.21	Joback Method
dvisc	0.0000940	Paxs	696.77	Joback Method
dvisc	0.0001556	Paxs	631.32	Joback Method
dvisc	0.0002894	Paxs	565.88	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=U353812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353812&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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