

# Sebacic acid, isobutyl 2-methyl-3-nitrobenzyl ester

Inchi:	InChI=1S/C22H33NO6/c1-17(2)15-28-21(24)13-8-6-4-5-7-9-14-22(25)29-16-19-11-10-12
InchiKey:	SGYHIYIVDMVKHE-UHFFFAOYSA-N
Formula:	C22H33NO6
SMILES:	<chem>Cc1c(COC(=O)CCCCCCCC(=O)OCC(C)C)cccc1[N+](=O)[O-]</chem>
Mol. weight [g/mol]:	407.50

## Physical Properties

Property code	Value	Unit	Source
gf	-207.22	kJ/mol	Joback Method
hf	-789.46	kJ/mol	Joback Method
hfus	59.41	kJ/mol	Joback Method
hvap	102.68	kJ/mol	Joback Method
log10ws	-6.82		Crippen Method
logp	5.266		Crippen Method
mvol	329.380	ml/mol	McGowan Method
pc	1175.24	kPa	Joback Method
rinpol	3003.00		NIST Webbook
rinpol	3003.00		NIST Webbook
tb	1043.38	K	Joback Method
tc	1277.70	K	Joback Method
tf	662.09	K	Joback Method
vc	1.284	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1107.35	J/molxK	1043.38	Joback Method
cpg	1119.92	J/molxK	1082.43	Joback Method
cpg	1130.92	J/molxK	1121.49	Joback Method
cpg	1140.42	J/molxK	1160.54	Joback Method
cpg	1148.44	J/molxK	1199.59	Joback Method
cpg	1155.04	J/molxK	1238.64	Joback Method
cpg	1160.25	J/molxK	1277.70	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=U380725&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380725&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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