

# Sebacic acid, isobutyl 4-methoxy-3-nitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C22H33NO7/c1-17(2)15-29-21(24)10-8-6-4-5-7-9-11-22(25)30-16-18-12-13-20
<b>InchiKey:</b>	NSIKRCRRGOIMTR-UHFFFAOYSA-N
<b>Formula:</b>	C22H33NO7
<b>SMILES:</b>	COc1ccc(COC(=O)CCCCCCCCC(=O)OCC(C)C)cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	423.50

## Physical Properties

Property code	Value	Unit	Source
gf	-312.22	kJ/mol	Joback Method
hf	-921.68	kJ/mol	Joback Method
hfus	60.60	kJ/mol	Joback Method
hvap	105.09	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	4.967		Crippen Method
mvol	335.250	ml/mol	McGowan Method
pc	1161.66	kPa	Joback Method
rinpol	3130.00		NIST Webbook
rinpol	3130.00		NIST Webbook
tb	1065.80	K	Joback Method
tc	1304.85	K	Joback Method
tf	684.32	K	Joback Method
vc	1.302	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1132.64	J/molxK	1065.80	Joback Method
cpg	1143.89	J/molxK	1105.64	Joback Method
cpg	1153.32	J/molxK	1145.48	Joback Method
cpg	1160.96	J/molxK	1185.33	Joback Method
cpg	1166.83	J/molxK	1225.17	Joback Method
cpg	1170.96	J/molxK	1265.01	Joback Method
cpg	1173.36	J/molxK	1304.85	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=U380649&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380649&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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