

# Sebacic acid, 3-nitro-4-fluorobenzyl pentyl ester

Inchi:	InChI=1S/C22H32FNO6/c1-2-3-10-15-29-21(25)11-8-6-4-5-7-9-12-22(26)30-17-18-13-14
InchiKey:	ADYYHHKMRYMZRU-UHFFFAOYSA-N
Formula:	C22H32FNO6
SMILES:	CCCCCOC(=O)CCCCCCCC(=O)OCc1ccc(F)c([N+](=O)[O-])c1
Mol. weight [g/mol]:	425.49

## Physical Properties

Property code	Value	Unit	Source
gf	-399.59	kJ/mol	Joback Method
hf	-980.29	kJ/mol	Joback Method
hfus	66.01	kJ/mol	Joback Method
hvap	102.25	kJ/mol	Joback Method
log10ws	-7.34		Crippen Method
logp	5.631		Crippen Method
mvol	331.150	ml/mol	McGowan Method
pc	1133.67	kPa	Joback Method
rinpol	3061.00		NIST Webbook
rinpol	3061.00		NIST Webbook
tb	1043.09	K	Joback Method
tc	1277.17	K	Joback Method
tf	677.68	K	Joback Method
vc	1.308	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1113.70	J/molxK	1043.09	Joback Method
cpg	1126.20	J/molxK	1082.10	Joback Method
cpg	1137.17	J/molxK	1121.12	Joback Method
cpg	1146.66	J/molxK	1160.13	Joback Method
cpg	1154.70	J/molxK	1199.14	Joback Method
cpg	1161.34	J/molxK	1238.15	Joback Method
cpg	1166.63	J/molxK	1277.17	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380698&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>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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