

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

Inchi:	InChI=1S/C20H29NO6/c1-3-26-18(22)13-8-6-4-5-7-9-14-19(23)27-15-17-12-10-11-16(2)
InchiKey:	AYXMUETXQZUDQF-UHFFFAOYSA-N
Formula:	C20H29NO6
SMILES:	CCOC(=O)CCCCCCCC(=O)OCc1cccc(C)c1[N+](=O)[O-]
Mol. weight [g/mol]:	379.45

## Physical Properties

Property code	Value	Unit	Source
gf	-221.62	kJ/mol	Joback Method
hf	-742.90	kJ/mol	Joback Method
hfus	57.75	kJ/mol	Joback Method
hvap	98.62	kJ/mol	Joback Method
log10ws	-6.23		Crippen Method
logp	4.630		Crippen Method
mvol	301.200	ml/mol	McGowan Method
pc	1338.82	kPa	Joback Method
rmpol	2790.00		NIST Webbook
rmpol	2790.00		NIST Webbook
tb	998.06	K	Joback Method
tc	1224.88	K	Joback Method
tf	654.55	K	Joback Method
vc	1.177	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	987.14	J/molxK	998.06	Joback Method
cpg	999.59	J/molxK	1035.86	Joback Method
cpg	1010.65	J/molxK	1073.67	Joback Method
cpg	1020.35	J/molxK	1111.47	Joback Method
cpg	1028.73	J/molxK	1149.27	Joback Method
cpg	1035.80	J/molxK	1187.07	Joback Method
cpg	1041.61	J/molxK	1224.88	Joback Method

# Sources

<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=U380729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380729&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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