

# Succinic acid, 8-chlorooctyl 3-methoxyphenyl ester

Inchi:	InChI=1S/C19H27ClO5/c1-23-16-9-8-10-17(15-16)25-19(22)12-11-18(21)24-14-7-5-3-2-4
InchiKey:	NYMGWYULAXONMH-UHFFFAOYSA-N
Formula:	C19H27ClO5
SMILES:	COc1cccc(OC(=O)CCC(=O)OCCCCCCCCCl)c1
Mol. weight [g/mol]:	370.87

## Physical Properties

Property code	Value	Unit	Source
gf	-372.89	kJ/mol	Joback Method
hf	-847.99	kJ/mol	Joback Method
hfus	49.58	kJ/mol	Joback Method
hvap	85.93	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.503		Crippen Method
mvol	287.800	ml/mol	McGowan Method
pc	1384.02	kPa	Joback Method
rinpol	2865.00		NIST Webbook
rinpol	2865.00		NIST Webbook
tb	878.21	K	Joback Method
tc	1083.90	K	Joback Method
tf	539.30	K	Joback Method
vc	1.107	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.61	J/molxK	878.21	Joback Method
cpg	933.95	J/molxK	1049.62	Joback Method
cpg	924.43	J/molxK	1015.34	Joback Method
cpg	913.75	J/molxK	981.06	Joback Method
cpg	901.90	J/molxK	946.77	Joback Method
cpg	888.85	J/molxK	912.49	Joback Method
cpg	942.31	J/molxK	1083.90	Joback Method
dvisc	0.0000408	Paxs	878.21	Joback Method

dvisc	0.0000520	Paxs	821.72	Joback Method
dvisc	0.0000688	Paxs	765.24	Joback Method
dvisc	0.0000951	Paxs	708.75	Joback Method
dvisc	0.0001390	Paxs	652.27	Joback Method
dvisc	0.0002186	Paxs	595.78	Joback Method
dvisc	0.0003777	Paxs	539.30	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=U390987&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390987&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.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>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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