

# Succinic acid, 8-chlorooctyl 2-methoxy-5-methylphenyl ester

**Inchi:** InChI=1S/C20H29ClO5/c1-16-9-10-17(24-2)18(15-16)26-20(23)12-11-19(22)25-14-8-6-4  
**InchiKey:** KHDZMSUWOPTFDM-UHFFFAOYSA-N  
**Formula:** C20H29ClO5  
**SMILES:** COc1ccc(C)cc1OC(=O)CCC(=O)OCCCCCCCCI  
**Mol. weight [g/mol]:** 384.89

## Physical Properties

Property code	Value	Unit	Source
gf	-374.10	kJ/mol	Joback Method
hf	-880.10	kJ/mol	Joback Method
hfus	51.78	kJ/mol	Joback Method
hvap	88.82	kJ/mol	Joback Method
log10ws	-5.58		Crippen Method
logp	4.812		Crippen Method
mvol	301.890	ml/mol	McGowan Method
pc	1276.42	kPa	Joback Method
rinpol	2892.00		NIST Webbook
rinpol	2892.00		NIST Webbook
tb	906.07	K	Joback Method
tc	1114.34	K	Joback Method
tf	563.09	K	Joback Method
vc	1.163	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	932.56	J/molxK	906.07	Joback Method
cpg	946.87	J/molxK	940.78	Joback Method
cpg	959.91	J/molxK	975.49	Joback Method
cpg	971.68	J/molxK	1010.21	Joback Method
cpg	982.19	J/molxK	1044.92	Joback Method
cpg	991.44	J/molxK	1079.63	Joback Method
cpg	999.45	J/molxK	1114.34	Joback Method
dvisc	0.0002985	Paxs	563.09	Joback Method

dvisc	0.0001781	Paxs	620.25	Joback Method
dvisc	0.0001160	Paxs	677.42	Joback Method
dvisc	0.0000807	Paxs	734.58	Joback Method
dvisc	0.0000592	Paxs	791.74	Joback Method
dvisc	0.0000453	Paxs	848.91	Joback Method
dvisc	0.0000358	Paxs	906.07	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390967&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390967&amp;Units=SI</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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