

# Succinic acid, 8-chlorooctyl 4-chlorobenzyl ester

Inchi:	InChI=1S/C19H26Cl2O4/c20-13-5-3-1-2-4-6-14-24-18(22)11-12-19(23)25-15-16-7-9-17(2)
InchiKey:	QYJFTIJCTDICOQ-UHFFFAOYSA-N
Formula:	C19H26Cl2O4
SMILES:	O=C(CCC(=O)OCc1ccc(Cl)cc1)OCCCCCCCCI
Mol. weight [g/mol]:	389.31

## Physical Properties

Property code	Value	Unit	Source
gf	-279.82	kJ/mol	Joback Method
hf	-731.51	kJ/mol	Joback Method
hfus	52.59	kJ/mol	Joback Method
hvap	87.91	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	5.286		Crippen Method
mvol	294.170	ml/mol	McGowan Method
pc	1363.65	kPa	Joback Method
rinpol	2984.00		NIST Webbook
rinpol	2984.00		NIST Webbook
tb	893.22	K	Joback Method
tc	1102.76	K	Joback Method
tf	546.99	K	Joback Method
vc	1.137	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	871.52	J/molxK	893.22	Joback Method
cpg	928.51	J/molxK	1067.84	Joback Method
cpg	919.25	J/molxK	1032.92	Joback Method
cpg	908.95	J/molxK	997.99	Joback Method
cpg	897.58	J/molxK	963.07	Joback Method
cpg	885.11	J/molxK	928.14	Joback Method
cpg	936.75	J/molxK	1102.76	Joback Method
dvisc	0.0000467	Paxs	893.22	Joback Method

dvisc	0.0000596	Paxs	835.51	Joback Method
dvisc	0.0000789	Paxs	777.81	Joback Method
dvisc	0.0001093	Paxs	720.11	Joback Method
dvisc	0.0001602	Paxs	662.40	Joback Method
dvisc	0.0002527	Paxs	604.69	Joback Method
dvisc	0.0004386	Paxs	546.99	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=U389682&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389682&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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