

# Succinic acid, 3-chlorophenethyl octadecyl ester

Inchi:	InChI=1S/C30H49ClO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-24-34-29(32)21-22
InchiKey:	QFAGLVBQMZBMU-UHFFFAOYSA-N
Formula:	C30H49ClO4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCCc1cccc(Cl)c1
Mol. weight [g/mol]:	509.16

## Physical Properties

Property code	Value	Unit	Source
gf	-175.27	kJ/mol	Joback Method
hf	-942.81	kJ/mol	Joback Method
hfus	76.88	kJ/mol	Joback Method
hvap	108.01	kJ/mol	Joback Method
log10ws	-9.89		Crippen Method
logp	9.011		Crippen Method
mvol	436.920	ml/mol	McGowan Method
pc	719.91	kPa	Joback Method
rinpol	3654.00		NIST Webbook
rinpol	3654.00		NIST Webbook
tb	1107.47	K	Joback Method
tc	1376.24	K	Joback Method
tf	641.04	K	Joback Method
vc	1.704	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1521.36	J/molxK	1107.47	Joback Method
cpg	1539.23	J/molxK	1152.27	Joback Method
cpg	1554.91	J/molxK	1197.06	Joback Method
cpg	1568.52	J/molxK	1241.86	Joback Method
cpg	1580.19	J/molxK	1286.65	Joback Method
cpg	1590.03	J/molxK	1331.45	Joback Method
cpg	1598.18	J/molxK	1376.24	Joback Method
dvisc	0.0001423	Paxs	641.04	Joback Method

dvisc	0.0000721	Paxs	718.78	Joback Method
dvisc	0.0000418	Paxs	796.52	Joback Method
dvisc	0.0000266	Paxs	874.25	Joback Method
dvisc	0.0000183	Paxs	951.99	Joback Method
dvisc	0.0000133	Paxs	1029.73	Joback Method
dvisc	0.0000101	Paxs	1107.47	Joback Method

## Sources

<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=U381509&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381509&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>

## 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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