

# Succinic acid, 8-chlorooctyl cis-hex-2-en-1-yl ester

Inchi:	InChI=1S/C18H31ClO4/c1-2-3-4-10-15-22-17(20)12-13-18(21)23-16-11-8-6-5-7-9-14-19
InchiKey:	LBRXRZNSQWEEHN-WMZJFQQLSA-N
Formula:	C18H31ClO4
SMILES:	CCCC=CCOC(=O)CCC(=O)OCCCCCCCCCI
Mol. weight [g/mol]:	346.89

## Physical Properties

Property code	Value	Unit	Source
gf	-298.87	kJ/mol	Joback Method
hf	-802.97	kJ/mol	Joback Method
hfus	52.35	kJ/mol	Joback Method
hvap	78.32	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.789		Crippen Method
mvol	287.300	ml/mol	McGowan Method
pc	1240.71	kPa	Joback Method
rinpol	2504.00		NIST Webbook
rinpol	2504.00		NIST Webbook
tb	805.41	K	Joback Method
tc	993.22	K	Joback Method
tf	461.78	K	Joback Method
vc	1.121	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	855.70	J/molxK	805.41	Joback Method
cpg	871.68	J/molxK	836.71	Joback Method
cpg	886.75	J/molxK	868.01	Joback Method
cpg	900.91	J/molxK	899.31	Joback Method
cpg	914.21	J/molxK	930.62	Joback Method
cpg	926.66	J/molxK	961.92	Joback Method
cpg	938.28	J/molxK	993.22	Joback Method
dvisc	0.0007679	Paxs	461.78	Joback Method

dvisc	0.0003850	Paxs	519.05	Joback Method
dvisc	0.0002214	Paxs	576.32	Joback Method
dvisc	0.0001407	Paxs	633.60	Joback Method
dvisc	0.0000964	Paxs	690.87	Joback Method
dvisc	0.0000700	Paxs	748.14	Joback Method
dvisc	0.0000532	Paxs	805.41	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=U391309&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391309&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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