

# Succinic acid, cyclohexylmethyl 8-chlorooctyl ester

Inchi:	InChI=1S/C19H33ClO4/c20-14-8-3-1-2-4-9-15-23-18(21)12-13-19(22)24-16-17-10-6-5-7
InchiKey:	HOUPHOMRWMNZNX-UHFFFAOYSA-N
Formula:	C19H33ClO4
SMILES:	O=C(CCC(=O)OCC1CCCCC1)OCCCCCCCCCl
Mol. weight [g/mol]:	360.92

## Physical Properties

Property code	Value	Unit	Source
gf	-346.22	kJ/mol	Joback Method
hf	-886.51	kJ/mol	Joback Method
hfus	46.57	kJ/mol	Joback Method
hvap	81.01	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	5.013		Crippen Method
mvol	294.830	ml/mol	McGowan Method
pc	1292.07	kPa	Joback Method
rinpol	2694.00		NIST Webbook
rinpol	2694.00		NIST Webbook
tb	843.68	K	Joback Method
tc	1043.79	K	Joback Method
tf	485.51	K	Joback Method
vc	1.129	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.77	J/molxK	843.68	Joback Method
cpg	954.27	J/molxK	877.03	Joback Method
cpg	970.49	J/molxK	910.38	Joback Method
cpg	985.46	J/molxK	943.73	Joback Method
cpg	999.20	J/molxK	977.09	Joback Method
cpg	1011.74	J/molxK	1010.44	Joback Method
cpg	1023.09	J/molxK	1043.79	Joback Method
dvisc	0.0008442	Paxs	485.51	Joback Method

dvisc	0.0004166	Paxs	545.20	Joback Method
dvisc	0.0002363	Paxs	604.90	Joback Method
dvisc	0.0001485	Paxs	664.60	Joback Method
dvisc	0.0001007	Paxs	724.29	Joback Method
dvisc	0.0000724	Paxs	783.98	Joback Method
dvisc	0.0000546	Paxs	843.68	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390492&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390492&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.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>

## 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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