

# Succinic acid, 8-chlorooctyl dodecyl ester

**Inchi:** InChI=1S/C24H45ClO4/c1-2-3-4-5-6-7-8-10-13-16-21-28-23(26)18-19-24(27)29-22-17-14  
**InchiKey:** ADDWLBXQMOLRPU-UHFFFAOYSA-N  
**Formula:** C24H45ClO4  
**SMILES:** CCCCCCCCCCOC(=O)CCC(=O)OCCCCCCCCCI  
**Mol. weight [g/mol]:** 433.06

## Physical Properties

Property code	Value	Unit	Source
gf	-328.57	kJ/mol	Joback Method
hf	-1044.03	kJ/mol	Joback Method
hfus	67.69	kJ/mol	Joback Method
hvap	91.71	kJ/mol	Joback Method
log10ws	-7.75		Crippen Method
logp	7.353		Crippen Method
mvol	376.140	ml/mol	McGowan Method
pc	831.94	kPa	Joback Method
rinpol	3063.00		NIST Webbook
rinpol	3063.00		NIST Webbook
tb	938.53	K	Joback Method
tc	1152.36	K	Joback Method
tf	534.48	K	Joback Method
vc	1.476	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1248.50	J/molxK	938.53	Joback Method
cpg	1267.78	J/molxK	974.17	Joback Method
cpg	1285.57	J/molxK	1009.81	Joback Method
cpg	1301.90	J/molxK	1045.44	Joback Method
cpg	1316.83	J/molxK	1081.08	Joback Method
cpg	1330.39	J/molxK	1116.72	Joback Method
cpg	1342.63	J/molxK	1152.36	Joback Method
dvisc	0.0004067	Paxs	534.48	Joback Method

dvisc	0.0001963	Paxs	601.82	Joback Method
dvisc	0.0001097	Paxs	669.16	Joback Method
dvisc	0.0000682	Paxs	736.50	Joback Method
dvisc	0.0000459	Paxs	803.85	Joback Method
dvisc	0.0000329	Paxs	871.19	Joback Method
dvisc	0.0000247	Paxs	938.53	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=U349295&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349295&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>

## 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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