

# Succinic acid, 10-chlorodecyl dodecyl ester

**Inchi:** InChI=1S/C26H49ClO4/c1-2-3-4-5-6-7-9-12-15-18-23-30-25(28)20-21-26(29)31-24-19-16  
**InchiKey:** YJYYRYCKPPLDRM-UHFFFAOYSA-N  
**Formula:** C26H49ClO4  
**SMILES:** CCCCCCCCCCOC(=O)CCC(=O)OCCCCCCCCCCI  
**Mol. weight [g/mol]:** 461.12

## Physical Properties

Property code	Value	Unit	Source
gf	-311.73	kJ/mol	Joback Method
hf	-1085.31	kJ/mol	Joback Method
hfus	72.87	kJ/mol	Joback Method
hvap	96.17	kJ/mol	Joback Method
log10ws	-8.58		Crippen Method
logp	8.134		Crippen Method
mvol	404.320	ml/mol	McGowan Method
pc	746.92	kPa	Joback Method
rinpol	3250.00		NIST Webbook
rinpol	3250.00		NIST Webbook
tb	984.29	K	Joback Method
tc	1216.16	K	Joback Method
tf	557.02	K	Joback Method
vc	1.589	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1375.47	J/molxK	984.29	Joback Method
cpg	1395.92	J/molxK	1022.94	Joback Method
cpg	1414.58	J/molxK	1061.58	Joback Method
cpg	1431.50	J/molxK	1100.23	Joback Method
cpg	1446.76	J/molxK	1138.87	Joback Method
cpg	1460.41	J/molxK	1177.52	Joback Method
cpg	1472.51	J/molxK	1216.16	Joback Method
dvisc	0.0003134	Paxs	557.02	Joback Method

dvisc	0.0001486	Paxs	628.23	Joback Method
dvisc	0.0000820	Paxs	699.44	Joback Method
dvisc	0.0000505	Paxs	770.65	Joback Method
dvisc	0.0000338	Paxs	841.87	Joback Method
dvisc	0.0000241	Paxs	913.08	Joback Method
dvisc	0.0000180	Paxs	984.29	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=U349193&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349193&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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