

# Succinic acid, di(10-chlorodecyl) ester

<b>Inchi:</b>	InChI=1S/C24H44Cl2O4/c25-19-13-9-5-1-3-7-11-15-21-29-23(27)17-18-24(28)30-22-16-
<b>InchiKey:</b>	ADAFFQFTSIKHJY-UHFFFAOYSA-N
<b>Formula:</b>	C24H44Cl2O4
<b>SMILES:</b>	O=C(CCC(=O)OCCCCCCCCCCCCI)OCCCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	467.51

## Physical Properties

Property code	Value	Unit	Source
gf	-340.50	kJ/mol	Joback Method
hf	-1059.77	kJ/mol	Joback Method
hfus	71.88	kJ/mol	Joback Method
hvap	96.10	kJ/mol	Joback Method
log10ws	-7.90		Crippen Method
logp	7.572		Crippen Method
mcvol	388.380	ml/mol	McGowan Method
pc	814.46	kPa	Joback Method
rinpol	3433.00		NIST Webbook
rinpol	3433.00		NIST Webbook
tb	975.96	K	Joback Method
tc	1200.85	K	Joback Method
tf	564.40	K	Joback Method
vc	1.526	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1277.16	J/molxK	975.96	Joback Method
cpg	1295.48	J/molxK	1013.44	Joback Method
cpg	1312.22	J/molxK	1050.92	Joback Method
cpg	1327.44	J/molxK	1088.41	Joback Method
cpg	1341.18	J/molxK	1125.89	Joback Method
cpg	1353.49	J/molxK	1163.37	Joback Method
cpg	1364.43	J/molxK	1200.85	Joback Method
dvisc	0.0003139	Paxs	564.40	Joback Method

dvisc	0.0001558	Paxs	632.99	Joback Method
dvisc	0.0000887	Paxs	701.59	Joback Method
dvisc	0.0000558	Paxs	770.18	Joback Method
dvisc	0.0000379	Paxs	838.77	Joback Method
dvisc	0.0000272	Paxs	907.37	Joback Method
dvisc	0.0000205	Paxs	975.96	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U349195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349195&amp;Units=SI</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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