

# Succinic acid, 2,2-dichloroethyl dodec-9-yn-1-yl ester

<b>Inchi:</b>	InChI=1S/C18H28Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-14-23-17(21)12-13-18(22)24-15-16(19)
<b>InchiKey:</b>	KFFMKJYVFSGHOQ-UHFFFAOYSA-N
<b>Formula:</b>	C18H28Cl2O4
<b>SMILES:</b>	CCC#CCCCCCCCOC(=O)CCC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	379.32

## Physical Properties

Property code	Value	Unit	Source
gf	-190.66	kJ/mol	Joback Method
hf	-668.91	kJ/mol	Joback Method
hfus	55.94	kJ/mol	Joback Method
hvap	84.51	kJ/mol	Joback Method
log10ws	-5.79		Crippen Method
logp	4.801		Crippen Method
mvol	295.240	ml/mol	McGowan Method
pc	1312.75	kPa	Joback Method
rinpol	2586.00		NIST Webbook
rinpol	2586.00		NIST Webbook
tb	847.24	K	Joback Method
tc	1047.79	K	Joback Method
tf	587.88	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	859.61	J/molxK	847.24	Joback Method
cpg	874.40	J/molxK	880.66	Joback Method
cpg	888.16	J/molxK	914.09	Joback Method
cpg	900.92	J/molxK	947.51	Joback Method
cpg	912.69	J/molxK	980.94	Joback Method
cpg	923.48	J/molxK	1014.36	Joback Method
cpg	933.31	J/molxK	1047.79	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=U390998&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390998&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>rinpola:</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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