

# Succinic acid, hept-2-yl 2,4-dichloronaphth-1-yl ester

<b>Inchi:</b>	InChI=1S/C21H24Cl2O4/c1-3-4-5-8-14(2)26-19(24)11-12-20(25)27-21-16-10-7-6-9-15(16)
<b>InchiKey:</b>	YJRJFMNZGGZUFP-UHFFFAOYSA-N
<b>Formula:</b>	C21H24Cl2O4
<b>SMILES:</b>	CCCCC(C)OC(=O)CCC(=O)Oc1c(Cl)cc(Cl)c2cccc12
<b>Mol. weight [g/mol]:</b>	411.32

## Physical Properties

Property code	Value	Unit	Source
gf	-178.03	kJ/mol	Joback Method
hf	-609.94	kJ/mol	Joback Method
hfus	50.48	kJ/mol	Joback Method
hvap	94.94	kJ/mol	Joback Method
log10ws	-7.70		Crippen Method
logp	6.344		Crippen Method
mvol	302.890	ml/mol	McGowan Method
pc	1395.41	kPa	Joback Method
rinpol	2986.00		NIST Webbook
rinpol	2986.00		NIST Webbook
tb	967.48	K	Joback Method
tc	1194.15	K	Joback Method
tf	612.27	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	905.73	J/molxK	967.48	Joback Method
cpg	918.08	J/molxK	1005.26	Joback Method
cpg	929.32	J/molxK	1043.04	Joback Method
cpg	939.52	J/molxK	1080.82	Joback Method
cpg	948.71	J/molxK	1118.60	Joback Method
cpg	956.96	J/molxK	1156.37	Joback Method
cpg	964.32	J/molxK	1194.15	Joback Method
dvisc	0.0004101	Paxs	612.27	Joback Method

dvisc	0.0002667	Paxs	671.47	Joback Method
dvisc	0.0001860	Paxs	730.67	Joback Method
dvisc	0.0001369	Paxs	789.88	Joback Method
dvisc	0.0001052	Paxs	849.08	Joback Method
dvisc	0.0000836	Paxs	908.28	Joback Method
dvisc	0.0000684	Paxs	967.48	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389904&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389904&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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