

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

Inchi:	InChI=1S/C21H22Cl2O4/c22-17-12-18(23)21(16-9-5-4-8-15(16)17)27-20(25)11-10-19(24)
InchiKey:	MPLPRNKMLLSLBL-UHFFFAOYSA-N
Formula:	C21H22Cl2O4
SMILES:	O=C(CCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12)OCC1CCCCC1
Mol. weight [g/mol]:	409.30

## Physical Properties

Property code	Value	Unit	Source
gf	-151.14	kJ/mol	Joback Method
hf	-550.34	kJ/mol	Joback Method
hfus	45.84	kJ/mol	Joback Method
hvap	95.75	kJ/mol	Joback Method
log10ws	-7.24		Crippen Method
logp	5.956		Crippen Method
mvol	292.030	ml/mol	McGowan Method
pc	1625.91	kPa	Joback Method
rinpol	3245.00		NIST Webbook
rinpol	3245.00		NIST Webbook
tb	987.47	K	Joback Method
tc	1230.82	K	Joback Method
tf	634.65	K	Joback Method
vc	1.105	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	897.05	J/molxK	987.47	Joback Method
cpg	909.23	J/molxK	1028.03	Joback Method
cpg	920.02	J/molxK	1068.59	Joback Method
cpg	929.49	J/molxK	1109.15	Joback Method
cpg	937.71	J/molxK	1149.70	Joback Method
cpg	944.75	J/molxK	1190.26	Joback Method
cpg	950.67	J/molxK	1230.82	Joback Method
dvisc	0.0004390	Paxs	634.65	Joback Method

dvisc	0.0002912	Paxs	693.45	Joback Method
dvisc	0.0002059	Paxs	752.26	Joback Method
dvisc	0.0001531	Paxs	811.06	Joback Method
dvisc	0.0001185	Paxs	869.86	Joback Method
dvisc	0.0000948	Paxs	928.67	Joback Method
dvisc	0.0000778	Paxs	987.47	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=U389906&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389906&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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