

# Succinic acid, 2,2,3,3-tetrafluoropropyl 2,4-dichloronaphth-1-yl ester

**Inchi:** InChI=1S/C17H12Cl2F4O4/c18-11-7-12(19)15(10-4-2-1-3-9(10)11)27-14(25)6-5-13(24)2  
**InchiKey:** ZBTSATKOUWJPFO-UHFFFAOYSA-N  
**Formula:** C17H12Cl2F4O4  
**SMILES:** O=C(CCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12)OCC(F)(F)C(F)F  
**Mol. weight [g/mol]:** 427.17

## Physical Properties

Property code	Value	Unit	Source
gf	-988.11	kJ/mol	Joback Method
hf	-1320.57	kJ/mol	Joback Method
hfus	45.03	kJ/mol	Joback Method
hvap	81.47	kJ/mol	Joback Method
log10ws	-6.54		Crippen Method
logp	5.276		Crippen Method
mvol	253.610	ml/mol	McGowan Method
pc	1660.55	kPa	Joback Method
rinpol	2530.00		NIST Webbook
rinpol	2530.00		NIST Webbook
tb	869.81	K	Joback Method
tc	1082.48	K	Joback Method
tf	571.97	K	Joback Method
vc	1.002	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.52	J/molxK	869.81	Joback Method
cpg	717.37	J/molxK	905.25	Joback Method
cpg	726.40	J/molxK	940.70	Joback Method
cpg	734.66	J/molxK	976.14	Joback Method
cpg	742.21	J/molxK	1011.59	Joback Method
cpg	749.10	J/molxK	1047.03	Joback Method
cpg	755.39	J/molxK	1082.48	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389900&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389900&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>hvp:</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>rinp:</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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