

# Succinic acid, 4-chloro-3-methylphenyl 2,4-dimethylpent-3-yl ester

**Inchi:** InChI=1S/C18H25ClO4/c1-11(2)18(12(3)4)23-17(21)9-8-16(20)22-14-6-7-15(19)13(5)10-  
**InchiKey:** GSUDTPLVGFTSNF-UHFFFAOYSA-N  
**Formula:** C18H25ClO4  
**SMILES:** Cc1cc(OC(=O)CCC(=O)OC(C(C)C)C(C)C)ccc1Cl  
**Mol. weight [g/mol]:** 340.84

## Physical Properties

Property code	Value	Unit	Source
gf	-293.26	kJ/mol	Joback Method
hf	-722.44	kJ/mol	Joback Method
hfus	34.84	kJ/mol	Joback Method
hvap	80.80	kJ/mol	Joback Method
log10ws	-5.20		Crippen Method
logp	4.558		Crippen Method
mcvol	267.840	ml/mol	McGowan Method
pc	1518.75	kPa	Joback Method
rinpola	2350.00		NIST Webbook
rinpola	2350.00		NIST Webbook
tb	836.57	K	Joback Method
tc	1048.43	K	Joback Method
tf	473.32	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.10	J/molxK	836.57	Joback Method
cpg	803.99	J/molxK	871.88	Joback Method
cpg	817.70	J/molxK	907.19	Joback Method
cpg	830.26	J/molxK	942.50	Joback Method
cpg	841.68	J/molxK	977.81	Joback Method
cpg	851.98	J/molxK	1013.12	Joback Method
cpg	861.16	J/molxK	1048.43	Joback Method
dvisc	0.0007391	Paxs	473.32	Joback Method

dvisc	0.0003639	Paxs	533.86	Joback Method
dvisc	0.0002070	Paxs	594.40	Joback Method
dvisc	0.0001307	Paxs	654.94	Joback Method
dvisc	0.0000892	Paxs	715.49	Joback Method
dvisc	0.0000646	Paxs	776.03	Joback Method
dvisc	0.0000490	Paxs	836.57	Joback Method

## Sources

<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=U390511&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390511&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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