

# Succinic acid, dec-2-yl 4-chloro-2-formylphenyl ester

<b>Inchi:</b>	InChI=1S/C21H29ClO5/c1-3-4-5-6-7-8-9-16(2)26-20(24)12-13-21(25)27-19-11-10-18(22)
<b>InchiKey:</b>	WBUMPCYYFIGBQD-UHFFFAOYSA-N
<b>Formula:</b>	C21H29ClO5
<b>SMILES:</b>	CCCCCCCCC(C)OC(=O)CCC(=O)Oc1ccc(Cl)cc1C=O
<b>Mol. weight [g/mol]:</b>	396.90

## Physical Properties

Property code	Value	Unit	Source
gf	-362.64	kJ/mol	Joback Method
hf	-859.38	kJ/mol	Joback Method
hfus	51.95	kJ/mol	Joback Method
hvap	94.97	kJ/mol	Joback Method
log10ws	-6.71		Crippen Method
logp	5.520		Crippen Method
mvol	311.680	ml/mol	McGowan Method
pc	1279.16	kPa	Joback Method
rinpol	2826.00		NIST Webbook
rinpol	2826.00		NIST Webbook
tb	954.75	K	Joback Method
tc	1171.45	K	Joback Method
tf	579.13	K	Joback Method
vc	1.212	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	976.39	J/molxK	954.75	Joback Method
cpg	989.62	J/molxK	990.87	Joback Method
cpg	1001.56	J/molxK	1026.98	Joback Method
cpg	1012.22	J/molxK	1063.10	Joback Method
cpg	1021.65	J/molxK	1099.22	Joback Method
cpg	1029.86	J/molxK	1135.33	Joback Method
cpg	1036.89	J/molxK	1171.45	Joback Method
dvisc	0.0003966	Paxs	579.13	Joback Method

dvisc	0.0002253	Paxs	641.73	Joback Method
dvisc	0.0001415	Paxs	704.34	Joback Method
dvisc	0.0000959	Paxs	766.94	Joback Method
dvisc	0.0000689	Paxs	829.54	Joback Method
dvisc	0.0000519	Paxs	892.15	Joback Method
dvisc	0.0000405	Paxs	954.75	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=U389919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389919&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>
<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>

## 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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