

# Succinic acid, 2,4,6-trichlorophenyl 2,2,2-trichloroethyl ester

<b>Inchi:</b>	InChI=1S/C12H8Cl6O4/c13-6-3-7(14)11(8(15)4-6)22-10(20)2-1-9(19)21-5-12(16,17)18/h
<b>InchiKey:</b>	GNXCORFQNNSESA-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl6O4
<b>SMILES:</b>	O=C(CCC(=O)Oc1c(Cl)cc(Cl)cc1Cl)OCC(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	428.91

## Physical Properties

Property code	Value	Unit	Source
gf	-402.90	kJ/mol	Joback Method
hf	-681.68	kJ/mol	Joback Method
hfus	43.05	kJ/mol	Joback Method
hvap	89.89	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	5.246		Crippen Method
mvol	244.500	ml/mol	McGowan Method
pc	2075.54	kPa	Joback Method
rinpol	2543.00		NIST Webbook
tb	889.51	K	Joback Method
tc	1130.38	K	Joback Method
tf	615.24	K	Joback Method
vc	0.930	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.94	J/molxK	889.51	Joback Method
cpg	566.86	J/molxK	929.66	Joback Method
cpg	572.91	J/molxK	969.80	Joback Method
cpg	578.12	J/molxK	1009.95	Joback Method
cpg	582.53	J/molxK	1050.09	Joback Method
cpg	586.16	J/molxK	1090.24	Joback Method
cpg	589.06	J/molxK	1130.38	Joback Method
dvisc	0.0002921	Paxs	615.24	Joback Method
dvisc	0.0002010	Paxs	660.95	Joback Method

dvisc	0.0001452	Paxs	706.66	Joback Method
dvisc	0.0001091	Paxs	752.38	Joback Method
dvisc	0.0000847	Paxs	798.09	Joback Method
dvisc	0.0000676	Paxs	843.80	Joback Method
dvisc	0.0000552	Paxs	889.51	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390244&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390244&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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