

# Succinic acid, tridec-2-yn-1-yl 2,4,5-trichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C23H29Cl3O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-29-22(27)13-14-23(28)30-21-1
<b>InchiKey:</b>	XGAHYYQIRWSVGI-UHFFFAOYSA-N
<b>Formula:</b>	C23H29Cl3O4
<b>SMILES:</b>	CCCCCCCCCCC#CCOC(=O)CCC(=O)Oc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	475.83

## Physical Properties

Property code	Value	Unit	Source
gf	-74.53	kJ/mol	Joback Method
hf	-580.45	kJ/mol	Joback Method
hfus	69.49	kJ/mol	Joback Method
hvap	104.67	kJ/mol	Joback Method
log10ws	-8.78		Crippen Method
logp	7.410		Crippen Method
mvol	354.170	ml/mol	McGowan Method
pc	1111.85	kPa	Joback Method
rinpol	3238.00		NIST Webbook
rinpol	3238.00		NIST Webbook
tb	1041.13	K	Joback Method
tc	1275.45	K	Joback Method
tf	753.13	K	Joback Method
vc	1.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1070.99	J/mol×K	1041.13	Joback Method
cpg	1082.76	J/mol×K	1080.18	Joback Method
cpg	1093.10	J/mol×K	1119.24	Joback Method
cpg	1102.04	J/mol×K	1158.29	Joback Method
cpg	1109.60	J/mol×K	1197.35	Joback Method
cpg	1115.83	J/mol×K	1236.40	Joback Method
cpg	1120.76	J/mol×K	1275.45	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=U389977&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389977&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>h vap:</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>r in pol:</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

Latest version available from:

<https://www.cheméo.com/cid/73-689-7/Succinic-acid-tridec-2-yn-1-yl-2-4-5-trichlorophenyl-ester.pdf>

Generated by Cheméo on 2024-05-04 04:11:53.907631122 +0000 UTC m=+17085162.828208437.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.