

# Succinic acid, 2,4,6-trichlorophenyl trans-4-tert-butylcyclohexyl ester

<b>Inchi:</b>	InChI=1S/C20H25Cl3O4/c1-20(2,3)12-4-6-14(7-5-12)26-17(24)8-9-18(25)27-19-15(22)10
<b>InchiKey:</b>	LWEKSCLFWMHMFY-UHFFFAOYSA-N
<b>Formula:</b>	C20H25Cl3O4
<b>SMILES:</b>	CC(C)(C)C1CCC(OC(=O)CCC(=O)Oc2c(Cl)cc(Cl)cc2Cl)CC1
<b>Mol. weight [g/mol]:</b>	435.77

## Physical Properties

Property code	Value	Unit	Source
gf	-283.01	kJ/mol	Joback Method
hf	-765.60	kJ/mol	Joback Method
hfus	44.09	kJ/mol	Joback Method
hvap	94.67	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	6.481		Crippen Method
mvol	309.640	ml/mol	McGowan Method
pc	1392.29	kPa	Joback Method
rinpol	3018.00		NIST Webbook
rinpol	3018.00		NIST Webbook
tb	975.14	K	Joback Method
tc	1214.05	K	Joback Method
tf	618.78	K	Joback Method
vc	1.163	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.54	J/molxK	975.14	Joback Method
cpg	961.07	J/molxK	1014.96	Joback Method
cpg	972.02	J/molxK	1054.78	Joback Method
cpg	981.45	J/molxK	1094.60	Joback Method
cpg	989.39	J/molxK	1134.42	Joback Method
cpg	995.91	J/molxK	1174.23	Joback Method
cpg	1001.05	J/molxK	1214.05	Joback Method
dvisc	0.0002824	Paxs	618.78	Joback Method

dvisc	0.0001735	Paxs	678.17	Joback Method
dvisc	0.0001153	Paxs	737.57	Joback Method
dvisc	0.0000815	Paxs	796.96	Joback Method
dvisc	0.0000604	Paxs	856.35	Joback Method
dvisc	0.0000465	Paxs	915.75	Joback Method
dvisc	0.0000370	Paxs	975.14	Joback Method

## Sources

<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=U390204&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390204&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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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