

# Succinic acid, di(cis-4-tert-butylcyclohexyl) ester

Inchi:	InChI=1S/C24H42O4/c1-23(2,3)17-7-11-19(12-8-17)27-21(25)15-16-22(26)28-20-13-9-1
InchiKey:	IJKKIWACMLFLBE-UHFFFAOYSA-N
Formula:	C24H42O4
SMILES:	CC(C)(C)C1CCC(OC(=O)CCC(=O)OC2CCC(C(C)(C)C)CC2)CC1
Mol. weight [g/mol]:	394.59

## Physical Properties

Property code	Value	Unit	Source
gf	-277.48	kJ/mol	Joback Method
hf	-977.83	kJ/mol	Joback Method
hfus	34.47	kJ/mol	Joback Method
hvap	84.98	kJ/mol	Joback Method
log10ws	-6.64		Crippen Method
logp	6.063		Crippen Method
mvol	342.180	ml/mol	McGowan Method
pc	1076.39	kPa	Joback Method
rinpol	2719.00		NIST Webbook
rinpol	2719.00		NIST Webbook
tb	924.40	K	Joback Method
tc	1148.21	K	Joback Method
tf	515.68	K	Joback Method
vc	1.270	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1219.56	J/molxK	924.40	Joback Method
cpg	1239.98	J/molxK	961.70	Joback Method
cpg	1258.48	J/molxK	999.00	Joback Method
cpg	1275.16	J/molxK	1036.31	Joback Method
cpg	1290.08	J/molxK	1073.61	Joback Method
cpg	1303.33	J/molxK	1110.91	Joback Method
cpg	1314.98	J/molxK	1148.21	Joback Method
dvisc	0.0006706	Paxs	515.68	Joback Method

dvisc	0.0003009	Paxs	583.80	Joback Method
dvisc	0.0001597	Paxs	651.92	Joback Method
dvisc	0.0000955	Paxs	720.04	Joback Method
dvisc	0.0000624	Paxs	788.16	Joback Method
dvisc	0.0000437	Paxs	856.28	Joback Method
dvisc	0.0000322	Paxs	924.40	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390192&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390192&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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