

# Glutaric acid, 2,3-dichlorophenyl trans-4-tert-butylcyclohexyl ester

<b>Inchi:</b>	InChI=1S/C21H28Cl2O4/c1-21(2,3)14-10-12-15(13-11-14)26-18(24)8-5-9-19(25)27-17-7
<b>InchiKey:</b>	UXNIHVYSVFSRDN-UHFFFAOYSA-N
<b>Formula:</b>	C21H28Cl2O4
<b>SMILES:</b>	CC(C)(C)C1CCC(OC(=O)CCCC(=O)Oc2ccccc(Cl)c2Cl)CC1
<b>Mol. weight [g/mol]:</b>	415.35

## Physical Properties

Property code	Value	Unit	Source
gf	-253.03	kJ/mol	Joback Method
hf	-759.03	kJ/mol	Joback Method
hfus	42.87	kJ/mol	Joback Method
hvap	91.85	kJ/mol	Joback Method
log10ws	-6.98		Crippen Method
logp	6.217		Crippen Method
mvol	311.490	ml/mol	McGowan Method
pc	1347.68	kPa	Joback Method
rinpol	3029.00		NIST Webbook
rinpol	3029.00		NIST Webbook
tb	955.61	K	Joback Method
tc	1188.95	K	Joback Method
tf	587.61	K	Joback Method
vc	1.171	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	986.84	J/molxK	955.61	Joback Method
cpg	1042.53	J/molxK	1150.06	Joback Method
cpg	1034.34	J/molxK	1111.17	Joback Method
cpg	1024.73	J/molxK	1072.28	Joback Method
cpg	1013.64	J/molxK	1033.39	Joback Method
cpg	1001.04	J/molxK	994.50	Joback Method
cpg	1049.37	J/molxK	1188.95	Joback Method
dvisc	0.0000369	Paxs	955.61	Joback Method

dvisc	0.0000472	Paxs	894.28	Joback Method
dvisc	0.0000625	Paxs	832.94	Joback Method
dvisc	0.0000866	Paxs	771.61	Joback Method
dvisc	0.0001269	Paxs	710.28	Joback Method
dvisc	0.0002000	Paxs	648.94	Joback Method
dvisc	0.0003463	Paxs	587.61	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393407&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393407&amp;Units=SI</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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