

# Glutaric acid, 3-chlorophenyl trans-4-tert-butylcyclohexyl ester

<b>Inchi:</b>	InChI=1S/C21H29ClO4/c1-21(2,3)15-10-12-17(13-11-15)25-19(23)8-5-9-20(24)26-18-7-4
<b>InchiKey:</b>	QEEYFQADBLTCOI-UHFFFAOYSA-N
<b>Formula:</b>	C21H29ClO4
<b>SMILES:</b>	CC(C)(C)C1CCC(OC(=O)CCCC(=O)Oc2ccccc(Cl)c2)CC1
<b>Mol. weight [g/mol]:</b>	380.91

## Physical Properties

Property code	Value	Unit	Source
gf	-231.47	kJ/mol	Joback Method
hf	-731.82	kJ/mol	Joback Method
hfus	39.06	kJ/mol	Joback Method
hvap	86.80	kJ/mol	Joback Method
log10ws	-6.30		Crippen Method
logp	5.564		Crippen Method
mvol	299.250	ml/mol	McGowan Method
pc	1400.64	kPa	Joback Method
rinpol	2814.00		NIST Webbook
rinpol	2814.00		NIST Webbook
tb	913.20	K	Joback Method
tc	1141.97	K	Joback Method
tf	545.17	K	Joback Method
vc	1.121	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	963.65	J/molxK	913.20	Joback Method
cpg	1028.17	J/molxK	1103.84	Joback Method
cpg	1018.21	J/molxK	1065.71	Joback Method
cpg	1006.83	J/molxK	1027.58	Joback Method
cpg	993.98	J/molxK	989.46	Joback Method
cpg	979.61	J/molxK	951.33	Joback Method
cpg	1036.79	J/molxK	1141.97	Joback Method
dvisc	0.0000428	Paxs	913.20	Joback Method

dvisc	0.0000555	Paxs	851.86	Joback Method
dvisc	0.0000750	Paxs	790.52	Joback Method
dvisc	0.0001065	Paxs	729.18	Joback Method
dvisc	0.0001612	Paxs	667.85	Joback Method
dvisc	0.0002655	Paxs	606.51	Joback Method
dvisc	0.0004893	Paxs	545.17	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393406&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393406&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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/84-743-4/Glutaric-acid-3-chlorophenyl-trans-4-tert-butylcyclohexyl-ester.pdf>

Generated by Cheméo on 2024-05-03 14:19:01.03286614 +0000 UTC m=+17035189.953443462.

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