

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

Inchi:	InChI=1S/C25H44O4/c1-24(2,3)18-10-14-20(15-11-18)28-22(26)8-7-9-23(27)29-21-16-1
InchiKey:	LLRPKUOCTIYRIM-UHFFFAOYSA-N
Formula:	C25H44O4
SMILES:	CC(C)(C)C1CCC(OC(=O)CCCC(=O)OC2CCC(C(C)(C)C)CC2)CC1
Mol. weight [g/mol]:	408.61

## Physical Properties

Property code	Value	Unit	Source
gf	-269.06	kJ/mol	Joback Method
hf	-998.47	kJ/mol	Joback Method
hfus	37.06	kJ/mol	Joback Method
hvap	87.20	kJ/mol	Joback Method
log10ws	-7.06		Crippen Method
logp	6.453		Crippen Method
mcvol	356.270	ml/mol	McGowan Method
pc	1011.66	kPa	Joback Method
rinpol	2785.00		NIST Webbook
rinpol	2785.00		NIST Webbook
tb	947.28	K	Joback Method
tc	1171.20	K	Joback Method
tf	526.95	K	Joback Method
vc	1.325	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1282.70	J/molxK	947.28	Joback Method
cpg	1302.81	J/molxK	984.60	Joback Method
cpg	1321.00	J/molxK	1021.92	Joback Method
cpg	1337.36	J/molxK	1059.24	Joback Method
cpg	1351.96	J/molxK	1096.56	Joback Method
cpg	1364.90	J/molxK	1133.88	Joback Method
cpg	1376.25	J/molxK	1171.20	Joback Method
dvisc	0.0005875	Paxs	526.95	Joback Method

dvisc	0.0002615	Paxs	597.00	Joback Method
dvisc	0.0001380	Paxs	667.06	Joback Method
dvisc	0.0000822	Paxs	737.12	Joback Method
dvisc	0.0000536	Paxs	807.17	Joback Method
dvisc	0.0000374	Paxs	877.23	Joback Method
dvisc	0.0000275	Paxs	947.28	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=U393395&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393395&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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