

# Glutaric acid, 2-ethylhexyl cis-4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C23H42O4/c1-6-8-10-18(7-2)17-26-21(24)11-9-12-22(25)27-20-15-13-19(14-1
InchiKey:	LPHMDBAIUWSUBJ-UHFFFAOYSA-N
Formula:	C23H42O4
SMILES:	CCCCC(CC)COC(=O)CCCC(=O)OC1CCC(C(C)(C)C)CC1
Mol. weight [g/mol]:	382.58

## Physical Properties

Property code	Value	Unit	Source
gf	-307.92	kJ/mol	Joback Method
hf	-987.70	kJ/mol	Joback Method
hfus	42.87	kJ/mol	Joback Method
hvap	83.54	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	6.064		Crippen Method
mvol	338.950	ml/mol	McGowan Method
pc	1017.48	kPa	Joback Method
rinpol	2513.00		NIST Webbook
rinpol	2513.00		NIST Webbook
tb	889.43	K	Joback Method
tc	1094.35	K	Joback Method
tf	483.85	K	Joback Method
vc	1.286	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1156.24	J/molxK	889.43	Joback Method
cpg	1175.97	J/molxK	923.58	Joback Method
cpg	1194.18	J/molxK	957.74	Joback Method
cpg	1210.93	J/molxK	991.89	Joback Method
cpg	1226.26	J/molxK	1026.04	Joback Method
cpg	1240.20	J/molxK	1060.20	Joback Method
cpg	1252.81	J/molxK	1094.35	Joback Method
dvisc	0.0007849	Paxs	483.85	Joback Method

dvisc	0.0003344	Paxs	551.45	Joback Method
dvisc	0.0001717	Paxs	619.04	Joback Method
dvisc	0.0001005	Paxs	686.64	Joback Method
dvisc	0.0000647	Paxs	754.24	Joback Method
dvisc	0.0000448	Paxs	821.83	Joback Method
dvisc	0.0000328	Paxs	889.43	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=U393389&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393389&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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