

# Glutaric acid, 3-methylbut-2-en cis-4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C20H34O4/c1-15(2)13-14-23-18(21)7-6-8-19(22)24-17-11-9-16(10-12-17)20(3)
InchiKey:	SZOPDQQSOAVDTG-UHFFFAOYSA-N
Formula:	C20H34O4
SMILES:	CC(C)=CCOC(=O)CCCC(=O)OC1CCC(C(C)(C)C)CC1
Mol. weight [g/mol]:	338.48

## Physical Properties

Property code	Value	Unit	Source
gf	-259.07	kJ/mol	Joback Method
hf	-813.07	kJ/mol	Joback Method
hfus	37.51	kJ/mol	Joback Method
hvap	77.29	kJ/mol	Joback Method
log10ws	-5.30		Crippen Method
logp	4.814		Crippen Method
mcvol	292.380	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	2292.00		NIST Webbook
rinpol	2292.00		NIST Webbook
tb	825.27	K	Joback Method
tc	1032.08	K	Joback Method
tf	446.00	K	Joback Method
vc	1.105	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	944.37	J/mol×K	825.27	Joback Method
cpg	963.62	J/mol×K	859.74	Joback Method
cpg	981.51	J/mol×K	894.21	Joback Method
cpg	998.11	J/mol×K	928.67	Joback Method
cpg	1013.45	J/mol×K	963.14	Joback Method
cpg	1027.60	J/mol×K	997.61	Joback Method
cpg	1040.59	J/mol×K	1032.08	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=U393387&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393387&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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