

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

<b>Inchi:</b>	InChI=1S/C21H29FO4/c1-21(2,3)15-11-13-16(14-12-15)25-19(23)9-6-10-20(24)26-18-8-
<b>InchiKey:</b>	QNOCRVOAUWZSEE-UHFFFAOYSA-N
<b>Formula:</b>	C21H29FO4
<b>SMILES:</b>	CC(C)(C)C1CCC(OC(=O)CCCC(=O)Oc2ccccc2F)CC1
<b>Mol. weight [g/mol]:</b>	364.45

## Physical Properties

Property code	Value	Unit	Source
gf	-414.35	kJ/mol	Joback Method
hf	-912.19	kJ/mol	Joback Method
hfus	37.94	kJ/mol	Joback Method
hvap	81.60	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	5.050		Crippen Method
mcvol	288.780	ml/mol	McGowan Method
pc	1392.29	kPa	Joback Method
rinpol	2506.00		NIST Webbook
rinpol	2506.00		NIST Webbook
tb	875.04	K	Joback Method
tc	1094.03	K	Joback Method
tf	515.84	K	Joback Method
vc	1.091	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	944.39	J/molxK	875.04	Joback Method
cpg	961.42	J/molxK	911.54	Joback Method
cpg	976.93	J/molxK	948.04	Joback Method
cpg	990.97	J/molxK	984.54	Joback Method
cpg	1003.58	J/molxK	1021.04	Joback Method
cpg	1014.83	J/molxK	1057.54	Joback Method
cpg	1024.75	J/molxK	1094.03	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=U393388&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393388&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>hvp:</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>rinp:</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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