

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

<b>Inchi:</b>	InChI=1S/C18H28F4O4/c1-17(2,3)12-7-9-13(10-8-12)26-15(24)6-4-5-14(23)25-11-18(21)
<b>InchiKey:</b>	CJYVEPOSАОZKAN-UHFFFAOYSA-N
<b>Formula:</b>	C18H28F4O4
<b>SMILES:</b>	CC(C)(C)C1CCC(OC(=O)CCCC(=O)OCC(F)(F)C(F)F)CC1
<b>Mol. weight [g/mol]:</b>	384.41

## Physical Properties

Property code	Value	Unit	Source
gf	-1126.42	kJ/mol	Joback Method
hf	-1677.69	kJ/mol	Joback Method
hfus	34.82	kJ/mol	Joback Method
hvap	67.85	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	4.748		Crippen Method
mvol	275.580	ml/mol	McGowan Method
pc	1261.06	kPa	Joback Method
rinpol	1958.00		NIST Webbook
rinpol	1958.00		NIST Webbook
tb	768.88	K	Joback Method
tc	957.20	K	Joback Method
tf	432.28	K	Joback Method
vc	1.067	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	882.31	J/mol×K	768.88	Joback Method
cpg	899.99	J/mol×K	800.27	Joback Method
cpg	916.48	J/mol×K	831.65	Joback Method
cpg	931.83	J/mol×K	863.04	Joback Method
cpg	946.08	J/mol×K	894.43	Joback Method
cpg	959.28	J/mol×K	925.82	Joback Method
cpg	971.45	J/mol×K	957.20	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393382&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393382&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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