

# Glutaric acid, ethyl 2,3,4,5-tetrafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C14H14F4O4/c1-2-21-10(19)4-3-5-11(20)22-7-8-6-9(15)13(17)14(18)12(8)16/H
<b>InchiKey:</b>	JCEBITXHDMKHKW-UHFFFAOYSA-N
<b>Formula:</b>	C14H14F4O4
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OCc1cc(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	322.25

## Physical Properties

Property code	Value	Unit	Source
gf	-1106.19	kJ/mol	Joback Method
hf	-1415.68	kJ/mol	Joback Method
hfus	42.39	kJ/mol	Joback Method
hvap	66.73	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	3.020		Crippen Method
mcvol	206.320	ml/mol	McGowan Method
pc	1766.90	kPa	Joback Method
rinpol	1835.00		NIST Webbook
rinpol	1835.00		NIST Webbook
tb	715.98	K	Joback Method
tc	898.17	K	Joback Method
tf	470.72	K	Joback Method
vc	0.832	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	568.63	J/molxK	715.98	Joback Method
cpg	580.60	J/molxK	746.35	Joback Method
cpg	591.91	J/molxK	776.71	Joback Method
cpg	602.55	J/molxK	807.08	Joback Method
cpg	612.51	J/molxK	837.44	Joback Method
cpg	621.80	J/molxK	867.81	Joback Method
cpg	630.40	J/molxK	898.17	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377438&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377438&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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