

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

Inchi:	InChI=1S/C17H20F4O4/c1-2-3-4-8-24-13(22)6-5-7-14(23)25-10-11-9-12(18)16(20)17(21)
InchiKey:	JFXFGZOXJRUOJK-UHFFFAOYSA-N
Formula:	C17H20F4O4
SMILES:	CCCCCOC(=O)CCCC(=O)OCc1cc(F)c(F)c(F)c1F
Mol. weight [g/mol]:	364.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1080.93	kJ/mol	Joback Method
hf	-1477.60	kJ/mol	Joback Method
hfus	50.16	kJ/mol	Joback Method
hvap	73.40	kJ/mol	Joback Method
log10ws	-5.59		Crippen Method
logp	4.190		Crippen Method
mvol	248.590	ml/mol	McGowan Method
pc	1405.90	kPa	Joback Method
rinpol	2134.00		NIST Webbook
rinpol	2134.00		NIST Webbook
tb	784.62	K	Joback Method
tc	968.87	K	Joback Method
tf	504.53	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	732.41	J/molxK	784.62	Joback Method
cpg	745.82	J/molxK	815.33	Joback Method
cpg	758.41	J/molxK	846.04	Joback Method
cpg	770.16	J/molxK	876.74	Joback Method
cpg	781.08	J/molxK	907.45	Joback Method
cpg	791.18	J/molxK	938.16	Joback Method
cpg	800.45	J/molxK	968.87	Joback Method

# Sources

<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=U377442&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377442&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>h vap:</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>r in pol:</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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