

# Glutaric acid, di(1-(pentafluorophenyl)ethyl) ester

<b>Inchi:</b>	InChI=1S/C21H14F10O4/c1-6(10-12(22)16(26)20(30)17(27)13(10)23)34-8(32)4-3-5-9(33)
<b>InchiKey:</b>	ZFMGVFJYTDULDB-UHFFFAOYSA-N
<b>Formula:</b>	C21H14F10O4
<b>SMILES:</b>	CC(OC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	520.32

## Physical Properties

Property code	Value	Unit	Source
gf	-2166.36	kJ/mol	Joback Method
hf	-2579.67	kJ/mol	Joback Method
hfus	63.67	kJ/mol	Joback Method
hvap	82.88	kJ/mol	Joback Method
log10ws	-8.78		Crippen Method
logp	6.157		Crippen Method
mcvol	291.810	ml/mol	McGowan Method
pc	1065.18	kPa	Joback Method
rinpol	2206.00		NIST Webbook
rinpol	2206.00		NIST Webbook
tb	927.44	K	Joback Method
tc	1136.49	K	Joback Method
tf	624.69	K	Joback Method
vc	1.212	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	900.94	J/molxK	927.44	Joback Method
cpg	911.78	J/molxK	962.28	Joback Method
cpg	921.37	J/molxK	997.12	Joback Method
cpg	929.70	J/molxK	1031.97	Joback Method
cpg	936.77	J/molxK	1066.81	Joback Method
cpg	942.57	J/molxK	1101.65	Joback Method
cpg	947.09	J/molxK	1136.49	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=U377014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377014&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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