

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

Inchi:	InChI=1S/C23H31F5O4/c1-3-4-5-6-7-8-9-10-14-31-16(29)12-11-13-17(30)32-15(2)18-19
InchiKey:	SSGPHOFTMNYQOS-UHFFFAOYSA-N
Formula:	C23H31F5O4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	466.48

## Physical Properties

Property code	Value	Unit	Source
gf	-1237.29	kJ/mol	Joback Method
hf	-1814.30	kJ/mol	Joback Method
hfus	64.87	kJ/mol	Joback Method
hvap	86.22	kJ/mol	Joback Method
log10ws	-8.40		Crippen Method
logp	6.840		Crippen Method
mvol	334.900	ml/mol	McGowan Method
pc	921.06	kPa	Joback Method
rinpol	2512.00		NIST Webbook
rinpol	2512.00		NIST Webbook
tb	925.71	K	Joback Method
tc	1135.53	K	Joback Method
tf	570.26	K	Joback Method
vc	1.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1091.30	J/mol×K	925.71	Joback Method
cpg	1107.06	J/mol×K	960.68	Joback Method
cpg	1121.43	J/mol×K	995.65	Joback Method
cpg	1134.43	J/mol×K	1030.62	Joback Method
cpg	1146.08	J/mol×K	1065.59	Joback Method
cpg	1156.40	J/mol×K	1100.56	Joback Method
cpg	1165.39	J/mol×K	1135.53	Joback Method

# Sources

<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=U377004&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377004&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvap:</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>rinpola:</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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