

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

Inchi:	InChI=1S/C33H51F5O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-24-41-26(3
InchiKey:	ABRVUIOYOEECMM-UHFFFAOYSA-N
Formula:	C33H51F5O4
SMILES:	CCCCCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	606.75

## Physical Properties

Property code	Value	Unit	Source
gf	-1153.09	kJ/mol	Joback Method
hf	-2020.70	kJ/mol	Joback Method
hfus	90.77	kJ/mol	Joback Method
hvap	108.48	kJ/mol	Joback Method
log10ws	-12.58		Crippen Method
logp	10.742		Crippen Method
mvol	475.800	ml/mol	McGowan Method
pc	552.33	kPa	Joback Method
rinpol	3526.00		NIST Webbook
rinpol	3526.00		NIST Webbook
tb	1154.51	K	Joback Method
tc	1510.24	K	Joback Method
tf	682.96	K	Joback Method
vc	1.907	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1715.45	J/molxK	1154.51	Joback Method
cpg	1736.16	J/molxK	1213.80	Joback Method
cpg	1752.45	J/molxK	1273.09	Joback Method
cpg	1764.54	J/molxK	1332.37	Joback Method
cpg	1772.66	J/molxK	1391.66	Joback Method
cpg	1777.05	J/molxK	1450.95	Joback Method
cpg	1777.92	J/molxK	1510.24	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377013&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377013&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>
<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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