

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

Inchi:	InChI=1S/C26H37F5O4/c1-3-4-5-6-7-8-9-10-11-12-13-17-34-19(32)15-14-16-20(33)35-1
InchiKey:	CGCOOMAXLOBLBY-UHFFFAOYSA-N
Formula:	C26H37F5O4
SMILES:	CCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	508.56

## Physical Properties

Property code	Value	Unit	Source
gf	-1212.03	kJ/mol	Joback Method
hf	-1876.22	kJ/mol	Joback Method
hfus	72.64	kJ/mol	Joback Method
hvap	92.89	kJ/mol	Joback Method
log10ws	-9.65		Crippen Method
logp	8.011		Crippen Method
mcvol	377.170	ml/mol	McGowan Method
pc	778.94	kPa	Joback Method
rinpola	2812.00		NIST Webbook
rinpola	2812.00		NIST Webbook
tb	994.35	K	Joback Method
tc	1231.40	K	Joback Method
tf	604.07	K	Joback Method
vc	1.516	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1275.32	J/molxK	994.35	Joback Method
cpg	1292.50	J/molxK	1033.86	Joback Method
cpg	1307.80	J/molxK	1073.37	Joback Method
cpg	1321.24	J/molxK	1112.88	Joback Method
cpg	1332.86	J/molxK	1152.38	Joback Method
cpg	1342.71	J/molxK	1191.89	Joback Method
cpg	1350.81	J/molxK	1231.40	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=U377007&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377007&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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