

# Glutaric acid, 2-(pentafluorophenoxy)ethyl undecyl ester

<b>Inchi:</b>	InChI=1S/C24H33F5O5/c1-2-3-4-5-6-7-8-9-10-14-32-17(30)12-11-13-18(31)33-15-16-34
<b>InchiKey:</b>	NZKYXSCUDCW MID-UHFFFAOYSA-N
<b>Formula:</b>	C24H33F5O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCCOc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	496.51

## Physical Properties

Property code	Value	Unit	Source
gf	-1331.43	kJ/mol	Joback Method
hf	-1961.88	kJ/mol	Joback Method
hfus	72.17	kJ/mol	Joback Method
hvap	91.24	kJ/mol	Joback Method
log10ws	-8.09		Crippen Method
logp	6.548		Crippen Method
mvol	354.860	ml/mol	McGowan Method
pc	856.97	kPa	Joback Method
rinpol	2864.00		NIST Webbook
tb	971.45	K	Joback Method
tc	1199.39	K	Joback Method
tf	618.76	K	Joback Method
vc	1.427	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1180.61	J/mol×K	971.45	Joback Method
cpg	1196.44	J/mol×K	1009.44	Joback Method
cpg	1210.47	J/mol×K	1047.43	Joback Method
cpg	1222.69	J/mol×K	1085.42	Joback Method
cpg	1233.13	J/mol×K	1123.41	Joback Method
cpg	1241.77	J/mol×K	1161.40	Joback Method
cpg	1248.64	J/mol×K	1199.39	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=U377330&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377330&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.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>

# 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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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