

# Glutaric acid, decyl 1-(4-fluorophenyl)ethyl ester

Inchi:	InChI=1S/C23H35FO4/c1-3-4-5-6-7-8-9-10-18-27-22(25)12-11-13-23(26)28-19(2)20-14-
InchiKey:	NTOGYAVYFMGDSN-UHFFFAOYSA-N
Formula:	C23H35FO4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OC(C)c1ccc(F)cc1
Mol. weight [g/mol]:	394.52

## Physical Properties

Property code	Value	Unit	Source
gf	-419.53	kJ/mol	Joback Method
hf	-983.98	kJ/mol	Joback Method
hfus	54.11	kJ/mol	Joback Method
hvap	86.84	kJ/mol	Joback Method
log10ws	-7.07		Crippen Method
logp	6.284		Crippen Method
mvol	327.820	ml/mol	McGowan Method
pc	1071.46	kPa	Joback Method
rinpol	2694.00		NIST Webbook
rinpol	2694.00		NIST Webbook
tb	908.71	K	Joback Method
tc	1113.66	K	Joback Method
tf	517.82	K	Joback Method
vc	1.276	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1065.62	J/mol×K	908.71	Joback Method
cpg	1082.18	J/mol×K	942.87	Joback Method
cpg	1097.44	J/mol×K	977.03	Joback Method
cpg	1111.45	J/mol×K	1011.19	Joback Method
cpg	1124.23	J/mol×K	1045.35	Joback Method
cpg	1135.82	J/mol×K	1079.50	Joback Method
cpg	1146.25	J/mol×K	1113.66	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=U377108&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377108&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>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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