

# Glutaric acid, 1-(2,6-difluorophenyl)ethyl hexadecyl ester

Inchi:	InChI=1S/C29H46F2O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-23-34-27(32)21-18-22-2
InchiKey:	UUPBAIDEASSMDB-UHFFFAOYSA-N
Formula:	C29H46F2O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)cccc1F
Mol. weight [g/mol]:	496.67

## Physical Properties

Property code	Value	Unit	Source
gf	-573.45	kJ/mol	Joback Method
hf	-1315.40	kJ/mol	Joback Method
hfus	72.34	kJ/mol	Joback Method
hvap	100.04	kJ/mol	Joback Method
log10ws	-9.91		Crippen Method
logp	8.764		Crippen Method
mvol	414.130	ml/mol	McGowan Method
pc	734.03	kPa	Joback Method
rinpol	3306.00		NIST Webbook
tb	1050.24	K	Joback Method
tc	1302.25	K	Joback Method
tf	598.55	K	Joback Method
vc	1.629	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1445.63	J/mol×K	1050.24	Joback Method
cpg	1464.17	J/mol×K	1092.24	Joback Method
cpg	1480.60	J/mol×K	1134.24	Joback Method
cpg	1495.01	J/mol×K	1176.24	Joback Method
cpg	1507.49	J/mol×K	1218.24	Joback Method
cpg	1518.13	J/mol×K	1260.24	Joback Method
cpg	1527.00	J/mol×K	1302.25	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377261&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377261&amp;Units=SI</a>
<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>

# 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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