

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

<b>Inchi:</b>	InChI=1S/C30H48F2O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-24-35-28(33)22-19-2
<b>InchiKey:</b>	KEZGDTGVNXDUIG-UHFFFAOYSA-N
<b>Formula:</b>	C30H48F2O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)cccc1F
<b>Mol. weight [g/mol]:</b>	510.70

## Physical Properties

Property code	Value	Unit	Source
gf	-565.03	kJ/mol	Joback Method
hf	-1336.04	kJ/mol	Joback Method
hfus	74.93	kJ/mol	Joback Method
hvap	102.26	kJ/mol	Joback Method
log10ws	-10.33		Crippen Method
logp	9.154		Crippen Method
mvol	428.220	ml/mol	McGowan Method
pc	697.28	kPa	Joback Method
rinpol	3406.00		NIST Webbook
rinpol	3406.00		NIST Webbook
tb	1073.12	K	Joback Method
tc	1337.58	K	Joback Method
tf	609.82	K	Joback Method
vc	1.685	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1509.09	J/mol×K	1073.12	Joback Method
cpg	1528.10	J/mol×K	1117.20	Joback Method
cpg	1544.79	J/mol×K	1161.27	Joback Method
cpg	1559.27	J/mol×K	1205.35	Joback Method
cpg	1571.63	J/mol×K	1249.43	Joback Method
cpg	1582.00	J/mol×K	1293.50	Joback Method
cpg	1590.47	J/mol×K	1337.58	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377262&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>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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