

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

Inchi:	InChI=1S/C31H50F2O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-25-36-29(34)23-2
InchiKey:	SKZZCSUPKKOACJ-UHFFFAOYSA-N
Formula:	C31H50F2O4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)cccc1F
Mol. weight [g/mol]:	524.72

## Physical Properties

Property code	Value	Unit	Source
gf	-556.61	kJ/mol	Joback Method
hf	-1356.68	kJ/mol	Joback Method
hfus	77.52	kJ/mol	Joback Method
hvap	104.49	kJ/mol	Joback Method
log10ws	-10.75		Crippen Method
logp	9.544		Crippen Method
mcvol	442.310	ml/mol	McGowan Method
pc	663.23	kPa	Joback Method
rinpol	3510.00		NIST Webbook
rinpol	3510.00		NIST Webbook
tb	1096.00	K	Joback Method
tc	1374.51	K	Joback Method
tf	621.09	K	Joback Method
vc	1.742	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1572.79	J/mol×K	1096.00	Joback Method
cpg	1592.29	J/mol×K	1142.42	Joback Method
cpg	1609.23	J/mol×K	1188.84	Joback Method
cpg	1623.74	J/mol×K	1235.26	Joback Method
cpg	1635.95	J/mol×K	1281.67	Joback Method
cpg	1645.99	J/mol×K	1328.09	Joback Method
cpg	1653.98	J/mol×K	1374.51	Joback Method

# Sources

<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=U377263&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377263&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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