

# Glutaric acid, 3,5-difluorophenyl hexadecyl ester

Inchi:	InChI=1S/C27H42F2O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-19-32-26(30)17-16-18-27
InchiKey:	ZRGGEDBQHPVMRA-UHFFFAOYSA-N
Formula:	C27H42F2O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)Oc1cc(F)cc(F)c1
Mol. weight [g/mol]:	468.62

## Physical Properties

Property code	Value	Unit	Source
gf	-587.85	kJ/mol	Joback Method
hf	-1268.84	kJ/mol	Joback Method
hfus	70.68	kJ/mol	Joback Method
hvap	95.97	kJ/mol	Joback Method
log10ws	-9.26		Crippen Method
logp	8.065		Crippen Method
mvol	385.950	ml/mol	McGowan Method
pc	813.07	kPa	Joback Method
rinpol	3150.00		NIST Webbook
rinpol	3150.00		NIST Webbook
tb	1004.92	K	Joback Method
tc	1237.97	K	Joback Method
tf	591.01	K	Joback Method
vc	1.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1319.25	J/molxK	1004.92	Joback Method
cpg	1337.11	J/molxK	1043.76	Joback Method
cpg	1353.20	J/molxK	1082.60	Joback Method
cpg	1367.59	J/molxK	1121.44	Joback Method
cpg	1380.33	J/molxK	1160.28	Joback Method
cpg	1391.48	J/molxK	1199.12	Joback Method
cpg	1401.11	J/molxK	1237.97	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=U358641&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358641&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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