

# Glutaric acid, 2-(2-fluorophenyl)ethyl octadecyl ester

**Inchi:** InChI=1S/C31H51FO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-26-35-30(33)23-20-21  
**InchiKey:** HKNZYJHXQMKAIQ-UHFFFAOYSA-N  
**Formula:** C31H51FO4  
**SMILES:** CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCCc1ccccc1F  
**Mol. weight [g/mol]:** 506.73

## Physical Properties

Property code	Value	Unit	Source
gf	-349.73	kJ/mol	Joback Method
hf	-1143.82	kJ/mol	Joback Method
hfus	78.35	kJ/mol	Joback Method
hvap	105.03	kJ/mol	Joback Method
log10ws	-9.96		Crippen Method
logp	8.886		Crippen Method
mvol	440.540	ml/mol	McGowan Method
pc	681.36	kPa	Joback Method
rinpol	3631.00		NIST Webbook
rinpol	3631.00		NIST Webbook
tb	1092.19	K	Joback Method
tc	1365.18	K	Joback Method
tf	622.98	K	Joback Method
vc	1.730	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1567.20	J/molxK	1092.19	Joback Method
cpg	1587.00	J/molxK	1137.69	Joback Method
cpg	1604.41	J/molxK	1183.19	Joback Method
cpg	1619.57	J/molxK	1228.68	Joback Method
cpg	1632.60	J/molxK	1274.18	Joback Method
cpg	1643.64	J/molxK	1319.68	Joback Method
cpg	1652.82	J/molxK	1365.18	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377098&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377098&amp;Units=SI</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>hvpap:</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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