

# Glutaric acid, 4-fluorobenzyl hexadecyl ester

**Inchi:** InChI=1S/C28H45FO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-23-32-27(30)17-16-18-28(31)  
**InchiKey:** QRHVXGMGUKZGIN-UHFFFAOYSA-N  
**Formula:** C28H45FO4  
**SMILES:** CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1ccc(F)cc1  
**Mol. weight [g/mol]:** 464.65

## Physical Properties

Property code	Value	Unit	Source
gf	-374.99	kJ/mol	Joback Method
hf	-1081.90	kJ/mol	Joback Method
hfus	70.58	kJ/mol	Joback Method
hvap	98.35	kJ/mol	Joback Method
log10ws	-9.20		Crippen Method
logp	8.064		Crippen Method
mvol	398.270	ml/mol	McGowan Method
pc	796.63	kPa	Joback Method
rinpol	3374.00		NIST Webbook
rinpol	3374.00		NIST Webbook
tb	1023.55	K	Joback Method
tc	1261.30	K	Joback Method
tf	589.17	K	Joback Method
vc	1.562	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1376.21	J/mol×K	1023.55	Joback Method
cpg	1394.55	J/mol×K	1063.17	Joback Method
cpg	1411.06	J/mol×K	1102.80	Joback Method
cpg	1425.83	J/mol×K	1142.42	Joback Method
cpg	1438.92	J/mol×K	1182.05	Joback Method
cpg	1450.41	J/mol×K	1221.67	Joback Method
cpg	1460.37	J/mol×K	1261.30	Joback Method

# Sources

<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=U377485&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377485&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>

# 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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