

# Glutaric acid, 1-cyclopentylethyl 2-chloro-6-fluorophenyl ester

**Inchi:** InChI=1S/C18H22ClFO4/c1-12(13-6-2-3-7-13)23-16(21)10-5-11-17(22)24-18-14(19)8-4-5  
**InchiKey:** JKQYUFSIGJLUES-UHFFFAOYSA-N  
**Formula:** C18H22ClFO4  
**SMILES:** CC(OC(=O)CCCC(=O)Oc1c(F)cccc1Cl)C1CCCC1  
**Mol. weight [g/mol]:** 356.82

## Physical Properties

Property code	Value	Unit	Source
gf	-446.64	kJ/mol	Joback Method
hf	-847.51	kJ/mol	Joback Method
hfus	38.90	kJ/mol	Joback Method
hvap	81.01	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.677		Crippen Method
mvol	258.750	ml/mol	McGowan Method
pc	1670.06	kPa	Joback Method
rinpol	2381.00		NIST Webbook
rinpol	2381.00		NIST Webbook
tb	852.00	K	Joback Method
tc	1070.41	K	Joback Method
tf	514.81	K	Joback Method
vc	0.986	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.63	J/mol×K	852.00	Joback Method
cpg	800.33	J/mol×K	888.40	Joback Method
cpg	813.76	J/mol×K	924.80	Joback Method
cpg	825.93	J/mol×K	961.21	Joback Method
cpg	836.89	J/mol×K	997.61	Joback Method
cpg	846.67	J/mol×K	1034.01	Joback Method
cpg	855.29	J/mol×K	1070.41	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405465&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405465&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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