

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2-chloro-6-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H12ClF9O4/c17-8-3-1-4-9(18)12(8)30-11(28)6-2-5-10(27)29-7-14(21,22)16
<b>InchiKey:</b>	KXCVZMWZNPQNKP-UHFFFAOYSA-N
<b>Formula:</b>	C16H12ClF9O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1c(F)cccc1Cl)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	474.70

## Physical Properties

Property code	Value	Unit	Source
gf	-2049.99	kJ/mol	Joback Method
hf	-2461.84	kJ/mol	Joback Method
hfus	42.18	kJ/mol	Joback Method
hvap	65.88	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	5.269		Crippen Method
mvol	255.590	ml/mol	McGowan Method
pc	1333.93	kPa	Joback Method
rinpol	1947.00		NIST Webbook
rinpol	1947.00		NIST Webbook
tb	775.43	K	Joback Method
tc	957.40	K	Joback Method
tf	493.35	K	Joback Method
vc	1.044	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	749.58	J/mol×K	775.43	Joback Method
cpg	760.32	J/mol×K	805.76	Joback Method
cpg	770.26	J/mol×K	836.09	Joback Method
cpg	779.43	J/mol×K	866.41	Joback Method
cpg	787.90	J/mol×K	896.74	Joback Method
cpg	795.70	J/mol×K	927.07	Joback Method
cpg	802.89	J/mol×K	957.40	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=U391577&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391577&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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