

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2,5-dichlorophenyl ester

Inchi:	InChI=1S/C16H12Cl2F8O4/c17-8-4-5-9(18)10(6-8)30-12(28)3-1-2-11(27)29-7-14(21,22)
InchiKey:	PRAXSNWLJMMIPL-UHFFFAOYSA-N
Formula:	C16H12Cl2F8O4
SMILES:	O=C(CCCC(=O)Oc1cc(Cl)ccc1Cl)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]:	491.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1867.11	kJ/mol	Joback Method
hf	-2281.47	kJ/mol	Joback Method
hfus	43.30	kJ/mol	Joback Method
hvap	71.08	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	5.783		Crippen Method
mvol	266.060	ml/mol	McGowan Method
pc	1341.76	kPa	Joback Method
rinpol	2139.00		NIST Webbook
rinpol	2139.00		NIST Webbook
tb	813.59	K	Joback Method
tc	1004.64	K	Joback Method
tf	522.68	K	Joback Method
vc	1.075	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.88	J/molxK	813.59	Joback Method
cpg	774.93	J/molxK	845.43	Joback Method
cpg	784.17	J/molxK	877.27	Joback Method
cpg	792.66	J/molxK	909.11	Joback Method
cpg	800.45	J/molxK	940.96	Joback Method
cpg	807.61	J/molxK	972.80	Joback Method
cpg	814.19	J/molxK	1004.64	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=U392051&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392051&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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