

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl 4-fluoro-2-methoxyphenyl ester

Inchi:	InChI=1S/C17H15F9O5/c1-29-11-7-9(18)5-6-10(11)31-13(28)4-2-3-12(27)30-8-15(21,22
InchiKey:	CYVWPWBOQAEMEA-UHFFFAOYSA-N
Formula:	C17H15F9O5
SMILES:	COc1cc(F)ccc1OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]:	470.28

## Physical Properties

Property code	Value	Unit	Source
gf	-2134.64	kJ/mol	Joback Method
hf	-2598.96	kJ/mol	Joback Method
hfus	41.77	kJ/mol	Joback Method
hvap	66.13	kJ/mol	Joback Method
log10ws	-5.70		Crippen Method
logp	4.624		Crippen Method
mvol	263.310	ml/mol	McGowan Method
pc	1262.85	kPa	Joback Method
rinpol	1975.00		NIST Webbook
rinpol	1975.00		NIST Webbook
tb	783.30	K	Joback Method
tc	963.59	K	Joback Method
tf	496.93	K	Joback Method
vc	1.069	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	806.04	J/mol×K	783.30	Joback Method
cpg	817.95	J/mol×K	813.35	Joback Method
cpg	828.98	J/mol×K	843.40	Joback Method
cpg	839.17	J/mol×K	873.44	Joback Method
cpg	848.57	J/mol×K	903.49	Joback Method
cpg	857.22	J/mol×K	933.54	Joback Method
cpg	865.16	J/mol×K	963.59	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=U393438&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393438&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>
<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>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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