

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

<b>Inchi:</b>	InChI=1S/C17H16F8O5/c1-28-10-5-2-3-6-11(10)30-13(27)8-4-7-12(26)29-9-15(20,21)17
<b>InchiKey:</b>	LWXWDYXEIBGFPU-UHFFFAOYSA-N
<b>Formula:</b>	C17H16F8O5
<b>SMILES:</b>	COc1ccccc1OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	452.29

## Physical Properties

Property code	Value	Unit	Source
gf	-1930.20	kJ/mol	Joback Method
hf	-2391.38	kJ/mol	Joback Method
hfus	39.07	kJ/mol	Joback Method
hvap	66.28	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	4.485		Crippen Method
mvol	261.540	ml/mol	McGowan Method
pc	1318.48	kPa	Joback Method
rinpol	2020.00		NIST Webbook
rinpol	2020.00		NIST Webbook
tb	779.05	K	Joback Method
tc	961.25	K	Joback Method
tf	483.82	K	Joback Method
vc	1.050	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	799.45	J/molxK	779.05	Joback Method
cpg	811.72	J/molxK	809.42	Joback Method
cpg	823.08	J/molxK	839.78	Joback Method
cpg	833.58	J/molxK	870.15	Joback Method
cpg	843.27	J/molxK	900.52	Joback Method
cpg	852.19	J/molxK	930.88	Joback Method
cpg	860.38	J/molxK	961.25	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=U391752&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391752&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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