

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

**Inchi:** InChI=1S/C17H12F12O4/c18-12-8(16(25,26)27)3-1-4-9(12)33-11(31)6-2-5-10(30)32-7-1  
**InchiKey:** JGLYBJYDMMQZJZ-UHFFFAOYSA-N  
**Formula:** C17H12F12O4  
**SMILES:** O=C(CCCC(=O)Oc1cccc(C(F)(F)F)c1F)OCC(F)(F)C(F)(F)C(F)(F)C(F)F  
**Mol. weight [g/mol]:** 508.26

## Physical Properties

Property code	Value	Unit	Source
gf	-2611.23	kJ/mol	Joback Method
hf	-3063.82	kJ/mol	Joback Method
hfus	42.40	kJ/mol	Joback Method
hvap	59.97	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	5.634		Crippen Method
mcvol	262.750	ml/mol	McGowan Method
pc	1178.47	kPa	Joback Method
rinpol	1792.00		NIST Webbook
rinpol	1792.00		NIST Webbook
tb	755.46	K	Joback Method
tc	928.14	K	Joback Method
tf	478.89	K	Joback Method
vc	1.093	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	804.40	J/molxK	755.46	Joback Method
cpg	815.72	J/molxK	784.24	Joback Method
cpg	826.21	J/molxK	813.02	Joback Method
cpg	835.93	J/molxK	841.80	Joback Method
cpg	844.93	J/molxK	870.58	Joback Method
cpg	853.27	J/molxK	899.36	Joback Method
cpg	861.01	J/molxK	928.14	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=U393613&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393613&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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