

# Glutaric acid, 2-fluorophenyl 2,3,5-trichlorophenyl ester

**Inchi:** InChI=1S/C17H12Cl3FO4/c18-10-8-11(19)17(20)14(9-10)25-16(23)7-3-6-15(22)24-13-5  
**InchiKey:** PLYNOYNGUJQOGJ-UHFFFAOYSA-N  
**Formula:** C17H12Cl3FO4  
**SMILES:** O=C(CCCC(=O)Oc1cc(Cl)cc(Cl)c1Cl)Oc1ccccc1F  
**Mol. weight [g/mol]:** 405.63

## Physical Properties

Property code	Value	Unit	Source
gf	-419.88	kJ/mol	Joback Method
hf	-699.96	kJ/mol	Joback Method
hfus	47.56	kJ/mol	Joback Method
hvap	91.29	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.467		Crippen Method
mcvol	256.240	ml/mol	McGowan Method
pc	1870.79	kPa	Joback Method
rinpola	2799.00		NIST Webbook
rinpola	2799.00		NIST Webbook
tb	925.78	K	Joback Method
tc	1160.71	K	Joback Method
tf	618.94	K	Joback Method
vc	0.985	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.05	J/molxK	925.78	Joback Method
cpg	687.03	J/molxK	964.94	Joback Method
cpg	694.85	J/molxK	1004.09	Joback Method
cpg	701.53	J/molxK	1043.25	Joback Method
cpg	707.10	J/molxK	1082.40	Joback Method
cpg	711.56	J/molxK	1121.56	Joback Method
cpg	714.94	J/molxK	1160.71	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=U392181&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392181&amp;Units=SI</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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