

# Glutaric acid, 2,4,6-trichlorophenyl 2-fluoro-3-trifluoromethylphenyl ester

**Inchi:** InChI=1S/C18H11Cl3F4O4/c19-9-7-11(20)17(12(21)8-9)29-15(27)6-2-5-14(26)28-13-4-1  
**InchiKey:** GVQIEWLTRYRNEQ-UHFFFAOYSA-N  
**Formula:** C18H11Cl3F4O4  
**SMILES:** O=C(CCCC(=O)Oc1c(Cl)cc(Cl)cc1Cl)Oc1cccc(C(F)(F)F)c1F  
**Mol. weight [g/mol]:** 473.63

## Physical Properties

Property code	Value	Unit	Source
gf	-1002.68	kJ/mol	Joback Method
hf	-1329.15	kJ/mol	Joback Method
hfus	51.58	kJ/mol	Joback Method
hvap	90.43	kJ/mol	Joback Method
log10ws	-7.66		Crippen Method
logp	6.486		Crippen Method
mvol	275.640	ml/mol	McGowan Method
pc	1551.22	kPa	Joback Method
rinpol	2669.00		NIST Webbook
rinpol	2669.00		NIST Webbook
tb	948.22	K	Joback Method
tc	1173.18	K	Joback Method
tf	646.92	K	Joback Method
vc	1.083	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	754.24	J/molxK	948.22	Joback Method
cpg	762.45	J/molxK	985.71	Joback Method
cpg	769.66	J/molxK	1023.21	Joback Method
cpg	775.89	J/molxK	1060.70	Joback Method
cpg	781.20	J/molxK	1098.19	Joback Method
cpg	785.63	J/molxK	1135.68	Joback Method
cpg	789.20	J/molxK	1173.18	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=U393626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393626&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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