

# Glutaric acid, 2,2-dichloroethyl 2,3,4-trifluorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H11Cl2F3O4/c14-9(15)6-21-10(19)2-1-3-11(20)22-8-5-4-7(16)12(17)13(8)
<b>InchiKey:</b>	SXMJYYMYZPJEHY-UHFFFAOYSA-N
<b>Formula:</b>	C13H11Cl2F3O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1ccc(F)c(F)c1F)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	359.12

## Physical Properties

Property code	Value	Unit	Source
gf	-936.47	kJ/mol	Joback Method
hf	-1224.22	kJ/mol	Joback Method
hfus	41.98	kJ/mol	Joback Method
hvap	73.04	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	3.527		Crippen Method
mvol	214.940	ml/mol	McGowan Method
pc	1908.57	kPa	Joback Method
rinpol	2063.00		NIST Webbook
rinpol	2063.00		NIST Webbook
tb	763.27	K	Joback Method
tc	962.03	K	Joback Method
tf	491.18	K	Joback Method
vc	0.850	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.00	J/molxK	763.27	Joback Method
cpg	568.40	J/molxK	796.40	Joback Method
cpg	578.04	J/molxK	829.52	Joback Method
cpg	586.93	J/molxK	862.65	Joback Method
cpg	595.06	J/molxK	895.78	Joback Method
cpg	602.43	J/molxK	928.90	Joback Method
cpg	609.04	J/molxK	962.03	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393638&amp;Units=SI</a>
<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>

# 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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