

# Glutaric acid, 1,1,1-trifluoroprop-2-yl 2,5-dichlorophenyl ester

**Inchi:** InChI=1S/C14H13Cl2F3O4/c1-8(14(17,18)19)22-12(20)3-2-4-13(21)23-11-7-9(15)5-6-10  
**InchiKey:** KWXVMODILHOFQG-UHFFFAOYSA-N  
**Formula:** C14H13Cl2F3O4  
**SMILES:** CC(OC(=O)CCCC(=O)Oc1cc(Cl)ccc1Cl)C(F)(F)F  
**Mol. weight [g/mol]:** 373.15

## Physical Properties

Property code	Value	Unit	Source
gf	-915.58	kJ/mol	Joback Method
hf	-1242.14	kJ/mol	Joback Method
hfus	37.55	kJ/mol	Joback Method
hvap	73.30	kJ/mol	Joback Method
log10ws	-5.30		Crippen Method
logp	4.563		Crippen Method
mvol	229.030	ml/mol	McGowan Method
pc	1809.23	kPa	Joback Method
rinpol	1977.00		NIST Webbook
rinpol	1977.00		NIST Webbook
tb	777.94	K	Joback Method
tc	982.13	K	Joback Method
tf	492.35	K	Joback Method
vc	0.894	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	614.80	J/mol×K	777.94	Joback Method
cpg	625.82	J/mol×K	811.97	Joback Method
cpg	635.97	J/mol×K	846.00	Joback Method
cpg	645.28	J/mol×K	880.04	Joback Method
cpg	653.78	J/mol×K	914.07	Joback Method
cpg	661.49	J/mol×K	948.10	Joback Method
cpg	668.44	J/mol×K	982.13	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392049&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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