

# Glutaric acid, 2,3-dichlorophenyl 2-fluoroethyl ester

<b>Inchi:</b>	InChI=1S/C13H13Cl2FO4/c14-9-3-1-4-10(13(9)15)20-12(18)6-2-5-11(17)19-8-7-16/h1,3-
<b>InchiKey:</b>	ZJZHMOSTAYLORQ-UHFFFAOYSA-N
<b>Formula:</b>	C13H13Cl2FO4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1cccc(Cl)c1Cl)OCCF
<b>Mol. weight [g/mol]:</b>	323.14

## Physical Properties

Property code	Value	Unit	Source
gf	-534.78	kJ/mol	Joback Method
hf	-815.25	kJ/mol	Joback Method
hfus	39.74	kJ/mol	Joback Method
hvap	74.40	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.582		Crippen Method
mvol	211.400	ml/mol	McGowan Method
pc	2081.22	kPa	Joback Method
rinpol	2189.00		NIST Webbook
rinpol	2189.00		NIST Webbook
tb	760.19	K	Joback Method
tc	968.60	K	Joback Method
tf	492.48	K	Joback Method
vc	0.820	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.30	J/mol×K	760.19	Joback Method
cpg	554.52	J/mol×K	794.92	Joback Method
cpg	564.91	J/mol×K	829.66	Joback Method
cpg	574.49	J/mol×K	864.39	Joback Method
cpg	583.24	J/mol×K	899.13	Joback Method
cpg	591.18	J/mol×K	933.86	Joback Method
cpg	598.31	J/mol×K	968.60	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393717&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393717&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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