

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

**Inchi:** InChI=1S/C13H13Cl3O4/c1-2-19-11(17)4-3-5-12(18)20-10-7-8(14)6-9(15)13(10)16/h6-7H  
**InchiKey:** IRKWAFVXFGZMOI-UHFFFAOYSA-N  
**Formula:** C13H13Cl3O4  
**SMILES:** CCOC(=O)CCCC(=O)Oc1cc(Cl)cc(Cl)c1Cl  
**Mol. weight [g/mol]:** 339.60

## Physical Properties

Property code	Value	Unit	Source
gf	-361.53	kJ/mol	Joback Method
hf	-646.35	kJ/mol	Joback Method
hfus	40.46	kJ/mol	Joback Method
hvap	80.26	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.286		Crippen Method
mvol	221.870	ml/mol	McGowan Method
pc	2068.00	kPa	Joback Method
rinpol	2567.00		NIST Webbook
rinpol	2567.00		NIST Webbook
tb	803.33	K	Joback Method
tc	1023.24	K	Joback Method
tf	534.33	K	Joback Method
vc	0.851	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	555.95	J/molxK	803.33	Joback Method
cpg	566.52	J/molxK	839.98	Joback Method
cpg	576.20	J/molxK	876.63	Joback Method
cpg	584.99	J/molxK	913.28	Joback Method
cpg	592.88	J/molxK	949.93	Joback Method
cpg	599.88	J/molxK	986.59	Joback Method
cpg	605.98	J/molxK	1023.24	Joback Method
dvisc	0.0005145	Paxs	534.33	Joback Method

dvisc	0.0003497	Paxs	579.16	Joback Method
dvisc	0.0002513	Paxs	624.00	Joback Method
dvisc	0.0001887	Paxs	668.83	Joback Method
dvisc	0.0001469	Paxs	713.66	Joback Method
dvisc	0.0001178	Paxs	758.50	Joback Method
dvisc	0.0000969	Paxs	803.33	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U359117&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359117&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>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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