

# Glutaric acid, di(2,4-dichlorophenyl) ester

**Inchi:** InChI=1S/C17H12Cl4O4/c18-10-4-6-14(12(20)8-10)24-16(22)2-1-3-17(23)25-15-7-5-11(19)17  
**InchiKey:** SAYPMZBAWMYDPY-UHFFFAOYSA-N  
**Formula:** C17H12Cl4O4  
**SMILES:** O=C(CCCC(=O)Oc1ccc(Cl)cc1Cl)Oc1ccc(Cl)cc1Cl  
**Mol. weight [g/mol]:** 422.09

## Physical Properties

Property code	Value	Unit	Source
gf	-237.00	kJ/mol	Joback Method
hf	-519.59	kJ/mol	Joback Method
hfus	48.67	kJ/mol	Joback Method
hvap	96.49	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	5.981		Crippen Method
mcvol	266.710	ml/mol	McGowan Method
pc	1883.80	kPa	Joback Method
rinpol	3050.00		NIST Webbook
rinpol	3050.00		NIST Webbook
tb	963.94	K	Joback Method
tc	1208.81	K	Joback Method
tf	648.27	K	Joback Method
vc	1.016	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.12	J/molxK	963.94	Joback Method
cpg	716.37	J/molxK	1168.00	Joback Method
cpg	713.06	J/molxK	1127.19	Joback Method
cpg	708.60	J/molxK	1086.37	Joback Method
cpg	702.98	J/molxK	1045.56	Joback Method
cpg	696.16	J/molxK	1004.75	Joback Method
cpg	718.54	J/molxK	1208.81	Joback Method
dvisc	0.0000498	Paxs	963.94	Joback Method

dvisc	0.0000603	Paxs	911.33	Joback Method
dvisc	0.0000748	Paxs	858.72	Joback Method
dvisc	0.0000953	Paxs	806.11	Joback Method
dvisc	0.0001257	Paxs	753.49	Joback Method
dvisc	0.0001728	Paxs	700.88	Joback Method
dvisc	0.0002501	Paxs	648.27	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391862&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391862&amp;Units=SI</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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