

# Glutaric acid, 2-chloro-5-methylphenyl pentyl ester

Inchi:	InChI=1S/C17H23ClO4/c1-3-4-5-11-21-16(19)7-6-8-17(20)22-15-12-13(2)9-10-14(15)18
InchiKey:	AKVKXVHUODQQQY-UHFFFAOYSA-N
Formula:	C17H23ClO4
SMILES:	CCCCCOC(=O)CCCC(=O)Oc1cc(C)ccc1Cl
Mol. weight [g/mol]:	326.81

## Physical Properties

Property code	Value	Unit	Source
gf	-294.36	kJ/mol	Joback Method
hf	-685.96	kJ/mol	Joback Method
hfus	42.82	kJ/mol	Joback Method
hvap	79.73	kJ/mol	Joback Method
log10ws	-5.16		Crippen Method
logp	4.458		Crippen Method
mvol	253.750	ml/mol	McGowan Method
pc	1607.71	kPa	Joback Method
rinpol	2373.00		NIST Webbook
rinpol	2373.00		NIST Webbook
tb	815.01	K	Joback Method
tc	1020.37	K	Joback Method
tf	507.05	K	Joback Method
vc	0.977	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	730.36	J/molxK	815.01	Joback Method
cpg	744.56	J/molxK	849.24	Joback Method
cpg	757.73	J/molxK	883.46	Joback Method
cpg	769.90	J/molxK	917.69	Joback Method
cpg	781.06	J/molxK	951.91	Joback Method
cpg	791.23	J/molxK	986.14	Joback Method
cpg	800.43	J/molxK	1020.37	Joback Method
dvisc	0.0005664	Paxs	507.05	Joback Method

dvisc	0.0003441	Paxs	558.38	Joback Method
dvisc	0.0002273	Paxs	609.70	Joback Method
dvisc	0.0001601	Paxs	661.03	Joback Method
dvisc	0.0001187	Paxs	712.36	Joback Method
dvisc	0.0000915	Paxs	763.68	Joback Method
dvisc	0.0000730	Paxs	815.01	Joback Method

## Sources

<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=U359333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359333&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>

## 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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