

# Glutaric acid, 3-chlorophenyl 4-methoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C19H19ClO5/c1-23-16-10-8-14(9-11-16)13-24-18(21)6-3-7-19(22)25-17-5-2-4
<b>InchiKey:</b>	PINAOBVZFBYBLE-UHFFFAOYSA-N
<b>Formula:</b>	C19H19ClO5
<b>SMILES:</b>	<chem>COc1ccc(COC(=O)CCCC(=O)Oc2cccc(Cl)c2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	362.80

## Physical Properties

Property code	Value	Unit	Source
gf	-270.11	kJ/mol	Joback Method
hf	-622.93	kJ/mol	Joback Method
hfus	43.23	kJ/mol	Joback Method
hvap	88.87	kJ/mol	Joback Method
log10ws	-5.24		Crippen Method
logp	4.168		Crippen Method
mvol	264.040	ml/mol	McGowan Method
pc	1777.34	kPa	Joback Method
rinpol	2875.00		NIST Webbook
rinpol	2875.00		NIST Webbook
tb	909.87	K	Joback Method
tc	1138.63	K	Joback Method
tf	578.24	K	Joback Method
vc	0.999	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	772.40	J/molxK	909.87	Joback Method
cpg	784.25	J/molxK	948.00	Joback Method
cpg	794.75	J/molxK	986.12	Joback Method
cpg	803.90	J/molxK	1024.25	Joback Method
cpg	811.73	J/molxK	1062.38	Joback Method
cpg	818.24	J/molxK	1100.50	Joback Method
cpg	823.44	J/molxK	1138.63	Joback Method
dvisc	0.0002997	Paxs	578.24	Joback Method

dvisc	0.0001879	Paxs	633.51	Joback Method
dvisc	0.0001270	Paxs	688.78	Joback Method
dvisc	0.0000910	Paxs	744.06	Joback Method
dvisc	0.0000682	Paxs	799.33	Joback Method
dvisc	0.0000531	Paxs	854.60	Joback Method
dvisc	0.0000426	Paxs	909.87	Joback Method

## Sources

<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=U391746&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391746&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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