

# Glutaric acid, 4-chlorobenzyl pentyl ester

<b>Inchi:</b>	InChI=1S/C17H23ClO4/c1-2-3-4-12-21-16(19)6-5-7-17(20)22-13-14-8-10-15(18)11-9-14
<b>InchiKey:</b>	QLEAQCYUYUYRHHQ-UHFFFAOYSA-N
<b>Formula:</b>	C17H23ClO4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)OCc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	326.81

## Physical Properties

Property code	Value	Unit	Source
gf	-284.73	kJ/mol	Joback Method
hf	-674.49	kJ/mol	Joback Method
hfus	43.21	kJ/mol	Joback Method
hvap	79.07	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.287		Crippen Method
mvol	253.750	ml/mol	McGowan Method
pc	1627.22	kPa	Joback Method
rmpol	2413.00		NIST Webbook
tb	810.03	K	Joback Method
tc	1014.58	K	Joback Method
tf	494.53	K	Joback Method
vc	0.977	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	731.34	J/molxK	810.03	Joback Method
cpg	745.62	J/molxK	844.12	Joback Method
cpg	758.88	J/molxK	878.21	Joback Method
cpg	771.12	J/molxK	912.30	Joback Method
cpg	782.38	J/molxK	946.39	Joback Method
cpg	792.66	J/molxK	980.49	Joback Method
cpg	801.99	J/molxK	1014.58	Joback Method
dvisc	0.0006561	Paxs	494.53	Joback Method
dvisc	0.0003807	Paxs	547.11	Joback Method

dvisc	0.0002430	Paxs	599.70	Joback Method
dvisc	0.0001667	Paxs	652.28	Joback Method
dvisc	0.0001210	Paxs	704.86	Joback Method
dvisc	0.0000918	Paxs	757.45	Joback Method
dvisc	0.0000722	Paxs	810.03	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=U358536&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358536&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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