

# Glutaric acid, 2-chlorophenyl pentyl ester

<b>Inchi:</b>	InChI=1S/C16H21ClO4/c1-2-3-6-12-20-15(18)10-7-11-16(19)21-14-9-5-4-8-13(14)17/h4-
<b>InchiKey:</b>	NYQVNTXTJYCPQP-UHFFFAOYSA-N
<b>Formula:</b>	C16H21ClO4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)Oc1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	312.79

## Physical Properties

Property code	Value	Unit	Source
gf	-293.15	kJ/mol	Joback Method
hf	-653.85	kJ/mol	Joback Method
hfus	40.62	kJ/mol	Joback Method
hvap	76.85	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.149		Crippen Method
mvol	239.660	ml/mol	McGowan Method
pc	1760.97	kPa	Joback Method
rinpol	2270.00		NIST Webbook
tb	787.15	K	Joback Method
tc	992.74	K	Joback Method
tf	483.26	K	Joback Method
vc	0.920	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	675.20	J/molxK	787.15	Joback Method
cpg	689.21	J/molxK	821.42	Joback Method
cpg	702.22	J/molxK	855.68	Joback Method
cpg	714.27	J/molxK	889.95	Joback Method
cpg	725.35	J/molxK	924.21	Joback Method
cpg	735.49	J/molxK	958.48	Joback Method
cpg	744.69	J/molxK	992.74	Joback Method
dvisc	0.0007196	Paxs	483.26	Joback Method
dvisc	0.0004230	Paxs	533.91	Joback Method

dvisc	0.0002726	Paxs	584.56	Joback Method
dvisc	0.0001884	Paxs	635.21	Joback Method
dvisc	0.0001376	Paxs	685.85	Joback Method
dvisc	0.0001049	Paxs	736.50	Joback Method
dvisc	0.0000828	Paxs	787.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358600&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358600&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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