

# Glutaric acid, 4-chloro-3-methylphenyl 2,4,4-trimethylpentyl ester

<b>Inchi:</b>	InChI=1S/C20H29ClO4/c1-14(12-20(3,4)5)13-24-18(22)7-6-8-19(23)25-16-9-10-17(21)15
<b>InchiKey:</b>	ZRAYAHCJHGISPV-UHFFFAOYSA-N
<b>Formula:</b>	C20H29ClO4
<b>SMILES:</b>	<chem>Cc1cc(OC(=O)CCCC(=O)OCC(C)CC(C)(C)C)ccc1Cl</chem>
<b>Mol. weight [g/mol]:</b>	368.89

## Physical Properties

Property code	Value	Unit	Source
gf	-268.70	kJ/mol	Joback Method
hf	-761.91	kJ/mol	Joback Method
hfus	39.65	kJ/mol	Joback Method
hvap	84.73	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	5.340		Crippen Method
mvol	296.020	ml/mol	McGowan Method
pc	1317.52	kPa	Joback Method
rinpol	2523.00		NIST Webbook
rinpol	2523.00		NIST Webbook
tb	879.98	K	Joback Method
tc	1092.60	K	Joback Method
tf	528.28	K	Joback Method
vc	1.127	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	905.39	J/molxK	879.98	Joback Method
cpg	920.50	J/molxK	915.42	Joback Method
cpg	934.42	J/molxK	950.85	Joback Method
cpg	947.21	J/molxK	986.29	Joback Method
cpg	958.89	J/molxK	1021.73	Joback Method
cpg	969.52	J/molxK	1057.16	Joback Method
cpg	979.12	J/molxK	1092.60	Joback Method
dvisc	0.0004195	Paxs	528.28	Joback Method

dvisc	0.0002243	Paxs	586.90	Joback Method
dvisc	0.0001344	Paxs	645.51	Joback Method
dvisc	0.0000877	Paxs	704.13	Joback Method
dvisc	0.0000611	Paxs	762.75	Joback Method
dvisc	0.0000448	Paxs	821.36	Joback Method
dvisc	0.0000343	Paxs	879.98	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=U391538&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391538&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>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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