

# Glutaric acid, ethyl 2-nitro-3-chlorobenzyl ester

<b>Inchi:</b>	InChI=1S/C14H16ClNO6/c1-2-21-12(17)7-4-8-13(18)22-9-10-5-3-6-11(15)14(10)16(19)2
<b>InchiKey:</b>	LZVRKUINWUQSMV-UHFFFAOYSA-N
<b>Formula:</b>	C14H16ClNO6
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OCc1cccc(Cl)c1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	329.73

## Physical Properties

Property code	Value	Unit	Source
gf	-284.07	kJ/mol	Joback Method
hf	-634.80	kJ/mol	Joback Method
hfus	46.41	kJ/mol	Joback Method
hvap	89.65	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	3.025		Crippen Method
mvol	228.900	ml/mol	McGowan Method
pc	2077.43	kPa	Joback Method
rinpol	2365.00		NIST Webbook
rinpol	2365.00		NIST Webbook
tb	898.21	K	Joback Method
tc	1127.74	K	Joback Method
tf	616.85	K	Joback Method
vc	0.890	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	661.45	J/mol×K	898.21	Joback Method
cpg	671.81	J/mol×K	936.46	Joback Method
cpg	681.04	J/mol×K	974.72	Joback Method
cpg	689.17	J/mol×K	1012.97	Joback Method
cpg	696.19	J/mol×K	1051.23	Joback Method
cpg	702.12	J/mol×K	1089.48	Joback Method
cpg	706.97	J/mol×K	1127.74	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=U377023&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377023&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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