

# Glutaric acid, 2-nitro-4-chlorobenzyl undecyl ester

Inchi:	InChI=1S/C23H34ClNO6/c1-2-3-4-5-6-7-8-9-10-16-30-22(26)12-11-13-23(27)31-18-19-1
InchiKey:	JULZITCBXSKIJB-UHFFFAOYSA-N
Formula:	C23H34ClNO6
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OCc1ccc(Cl)cc1[N+](=O)[O-]
Mol. weight [g/mol]:	455.97

## Physical Properties

Property code	Value	Unit	Source
gf	-208.29	kJ/mol	Joback Method
hf	-820.56	kJ/mol	Joback Method
hfus	69.72	kJ/mol	Joback Method
hvap	109.68	kJ/mol	Joback Method
log10ws	-8.11		Crippen Method
logp	6.536		Crippen Method
mvol	355.710	ml/mol	McGowan Method
pc	1069.36	kPa	Joback Method
rinpol	3293.00		NIST Webbook
tb	1104.13	K	Joback Method
tc	1353.02	K	Joback Method
tf	718.28	K	Joback Method
vc	1.395	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1187.24	J/mol×K	1104.13	Joback Method
cpg	1198.65	J/mol×K	1145.61	Joback Method
cpg	1208.39	J/mol×K	1187.09	Joback Method
cpg	1216.52	J/mol×K	1228.57	Joback Method
cpg	1223.10	J/mol×K	1270.06	Joback Method
cpg	1228.19	J/mol×K	1311.54	Joback Method
cpg	1231.85	J/mol×K	1353.02	Joback Method

# Sources

<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=U377056&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377056&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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>rinpola:</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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