

# Glutaric acid, 2-methylhex-3-yl 2-nitro-3-chlorobenzyl ester

<b>Inchi:</b>	InChI=1S/C19H26ClNO6/c1-4-7-16(13(2)3)27-18(23)11-6-10-17(22)26-12-14-8-5-9-15(2)
<b>InchiKey:</b>	YQDWTPNFROSEML-UHFFFAOYSA-N
<b>Formula:</b>	C19H26ClNO6
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCc1cccc(Cl)c1[N+](=O)[O-])C(C)C
<b>Mol. weight [g/mol]:</b>	399.87

## Physical Properties

Property code	Value	Unit	Source
gf	-246.85	kJ/mol	Joback Method
hf	-748.56	kJ/mol	Joback Method
hfus	52.31	kJ/mol	Joback Method
hvap	100.00	kJ/mol	Joback Method
log10ws	-6.31		Crippen Method
logp	4.830		Crippen Method
mcvol	299.350	ml/mol	McGowan Method
pc	1415.44	kPa	Joback Method
rinpol	2722.00		NIST Webbook
rinpol	2722.00		NIST Webbook
tb	1011.73	K	Joback Method
tc	1244.63	K	Joback Method
tf	643.20	K	Joback Method
vc	1.159	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	949.17	J/mol×K	1011.73	Joback Method
cpg	960.18	J/mol×K	1050.55	Joback Method
cpg	969.79	J/mol×K	1089.36	Joback Method
cpg	978.01	J/mol×K	1128.18	Joback Method
cpg	984.90	J/mol×K	1167.00	Joback Method
cpg	990.47	J/mol×K	1205.81	Joback Method
cpg	994.76	J/mol×K	1244.63	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.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>
<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=U377028&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377028&amp;Units=SI</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>h vap:</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>r in pol:</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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