

# Glutaric acid, 2-methylhex-3-yl 2-(2-nitrophenyl)ethyl ester

<b>Inchi:</b>	InChI=1S/C20H29NO6/c1-4-8-18(15(2)3)27-20(23)12-7-11-19(22)26-14-13-16-9-5-6-10-
<b>InchiKey:</b>	LABUEBFFQUWBLX-UHFFFAOYSA-N
<b>Formula:</b>	C20H29NO6
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCCc1ccccc1[N+](=O)[O-])C(C)C
<b>Mol. weight [g/mol]:</b>	379.45

## Physical Properties

Property code	Value	Unit	Source
gf	-216.87	kJ/mol	Joback Method
hf	-741.99	kJ/mol	Joback Method
hfus	51.10	kJ/mol	Joback Method
hvap	97.18	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	4.219		Crippen Method
mcvol	301.200	ml/mol	McGowan Method
pc	1369.71	kPa	Joback Method
rinpola	2747.00		NIST Webbook
tb	992.20	K	Joback Method
tc	1220.18	K	Joback Method
tf	612.03	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	989.23	J/molxK	992.20	Joback Method
cpg	1001.81	J/molxK	1030.20	Joback Method
cpg	1012.99	J/molxK	1068.19	Joback Method
cpg	1022.80	J/molxK	1106.19	Joback Method
cpg	1031.27	J/molxK	1144.19	Joback Method
cpg	1038.46	J/molxK	1182.18	Joback Method
cpg	1044.40	J/molxK	1220.18	Joback Method

# Sources

<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>
<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=U377524&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377524&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>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>mccvol:</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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