

# Glutaric acid, 2-methylhex-3-yl 3-nitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C19H27NO6/c1-4-7-17(14(2)3)26-19(22)11-6-10-18(21)25-13-15-8-5-9-16(12-
<b>InchiKey:</b>	RVVZWLXMRHQYTK-UHFFFAOYSA-N
<b>Formula:</b>	C19H27NO6
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCc1cccc([N+](=O)[O-])c1)C(C)C
<b>Mol. weight [g/mol]:</b>	365.42

## Physical Properties

Property code	Value	Unit	Source
gf	-225.29	kJ/mol	Joback Method
hf	-721.35	kJ/mol	Joback Method
hfus	48.51	kJ/mol	Joback Method
hvap	94.95	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.176		Crippen Method
mcvol	287.110	ml/mol	McGowan Method
pc	1472.49	kPa	Joback Method
rinsol	2757.00		NIST Webbook
tb	969.32	K	Joback Method
tc	1195.93	K	Joback Method
tf	600.76	K	Joback Method
vc	1.109	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	930.05	J/mol×K	969.32	Joback Method
cpg	942.58	J/mol×K	1007.09	Joback Method
cpg	953.75	J/mol×K	1044.86	Joback Method
cpg	963.59	J/mol×K	1082.62	Joback Method
cpg	972.14	J/mol×K	1120.39	Joback Method
cpg	979.43	J/mol×K	1158.16	Joback Method
cpg	985.50	J/mol×K	1195.93	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377463&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>
<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>

# 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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