

# Glutaric acid, isohexyl 2-nitrophenyl ester

**Inchi:** InChI=1S/C17H23NO6/c1-13(2)7-6-12-23-16(19)10-5-11-17(20)24-15-9-4-3-8-14(15)18(20)  
**InchiKey:** KNNDOTMXEUNUDK-UHFFFAOYSA-N  
**Formula:** C17H23NO6  
**SMILES:** CC(C)CCCOC(=O)CCCC(=O)Oc1ccccc1[N+](=O)[O-]  
**Mol. weight [g/mol]:** 337.37

## Physical Properties

Property code	Value	Unit	Source
gf	-239.69	kJ/mol	Joback Method
hf	-674.79	kJ/mol	Joback Method
hfus	46.85	kJ/mol	Joback Method
hvap	90.89	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	3.650		Crippen Method
mvol	258.930	ml/mol	McGowan Method
pc	1704.71	kPa	Joback Method
rinpol	2549.00		NIST Webbook
rinpol	2549.00		NIST Webbook
tb	924.00	K	Joback Method
tc	1148.18	K	Joback Method
tf	593.22	K	Joback Method
vc	1.004	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	812.88	J/mol×K	924.00	Joback Method
cpg	825.20	J/mol×K	961.36	Joback Method
cpg	836.26	J/mol×K	998.73	Joback Method
cpg	846.10	J/mol×K	1036.09	Joback Method
cpg	854.75	J/mol×K	1073.45	Joback Method
cpg	862.23	J/mol×K	1110.82	Joback Method
cpg	868.56	J/mol×K	1148.18	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=U358757&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358757&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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