

# Glutaric acid, 3-nitrophenethyl undecyl ester

<b>Inchi:</b>	InChI=1S/C24H37NO6/c1-2-3-4-5-6-7-8-9-10-18-30-23(26)15-12-16-24(27)31-19-17-21-
<b>InchiKey:</b>	NUUNDBWLJVNUOA-UHFFFAOYSA-N
<b>Formula:</b>	C24H37NO6
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCCc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	435.55

## Physical Properties

Property code	Value	Unit	Source
gf	-178.31	kJ/mol	Joback Method
hf	-813.99	kJ/mol	Joback Method
hfus	68.50	kJ/mol	Joback Method
hvap	106.86	kJ/mol	Joback Method
log10ws	-7.35		Crippen Method
logp	5.925		Crippen Method
mvol	357.560	ml/mol	McGowan Method
pc	1039.24	kPa	Joback Method
rmpol	3338.00		NIST Webbook
tb	1084.60	K	Joback Method
tc	1329.30	K	Joback Method
tf	687.11	K	Joback Method
vc	1.401	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1229.98	J/mol×K	1084.60	Joback Method
cpg	1243.08	J/mol×K	1125.38	Joback Method
cpg	1254.51	J/mol×K	1166.17	Joback Method
cpg	1264.34	J/mol×K	1206.95	Joback Method
cpg	1272.64	J/mol×K	1247.73	Joback Method
cpg	1279.48	J/mol×K	1288.52	Joback Method
cpg	1284.92	J/mol×K	1329.30	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=U376754&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376754&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>hvac:</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

Latest version available from:

<https://www.chemeo.com/cid/45-076-8/Glutaric-acid-3-nitrophenethyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-23 11:18:18.077249081 +0000 UTC m=+16160346.997826397.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.