

# Glutaric acid, dodecyl 3-methyl-2-nitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C25H39NO6/c1-3-4-5-6-7-8-9-10-11-12-19-31-23(27)17-14-18-24(28)32-20-22
<b>InchiKey:</b>	OTYIZIIDOXBMPB-UHFFFAOYSA-N
<b>Formula:</b>	C25H39NO6
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)CCCC(=O)OCc1cccc(C)c1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	449.58

## Physical Properties

Property code	Value	Unit	Source
gf	-179.52	kJ/mol	Joback Method
hf	-846.10	kJ/mol	Joback Method
hfus	70.70	kJ/mol	Joback Method
hvap	109.75	kJ/mol	Joback Method
log10ws	-8.32		Crippen Method
logp	6.581		Crippen Method
mvol	371.650	ml/mol	McGowan Method
pc	968.68	kPa	Joback Method
rinpol	3301.00		NIST Webbook
rinpol	3301.00		NIST Webbook
tb	1112.46	K	Joback Method
tc	1366.14	K	Joback Method
tf	710.90	K	Joback Method
vc	1.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1289.76	J/molxK	1112.46	Joback Method
cpg	1302.71	J/molxK	1154.74	Joback Method
cpg	1313.81	J/molxK	1197.02	Joback Method
cpg	1323.12	J/molxK	1239.30	Joback Method
cpg	1330.72	J/molxK	1281.58	Joback Method
cpg	1336.68	J/molxK	1323.86	Joback Method
cpg	1341.06	J/molxK	1366.14	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.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=U376742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376742&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>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

Latest version available from:

<https://www.chemeo.com/cid/12-047-6/Glutaric-acid-dodecyl-3-methyl-2-nitrobenzyl-ester.pdf>

Generated by Cheméo on 2024-04-24 11:03:03.036167827 +0000 UTC m=+16245831.956745144.

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