

# Glutaric acid, monoamide, N-(3-methylphenyl)-, dodecyl ester

Inchi:	InChI=1S/C24H39NO3/c1-3-4-5-6-7-8-9-10-11-12-19-28-24(27)18-14-17-23(26)25-22-16
InchiKey:	LWGFKKXGTFIFDN-UHFFFAOYSA-N
Formula:	C24H39NO3
SMILES:	CCCCCCCCCCCCOC(=O)CCCC(=O)Nc1cccc(C)c1
Mol. weight [g/mol]:	389.57

## Physical Properties

Property code	Value	Unit	Source
gf	-19.47	kJ/mol	Joback Method
hf	-617.54	kJ/mol	Joback Method
hfus	61.05	kJ/mol	Joback Method
hvap	94.29	kJ/mol	Joback Method
log10ws	-7.29		Crippen Method
logp	6.568		Crippen Method
mcvol	344.250	ml/mol	McGowan Method
pc	1051.41	kPa	Joback Method
rinpola	3403.00		NIST Webbook
tb	960.51	K	Joback Method
tc	1175.99	K	Joback Method
tf	573.93	K	Joback Method
vc	1.337	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1150.88	J/molxK	960.51	Joback Method
cpg	1167.76	J/molxK	996.42	Joback Method
cpg	1183.34	J/molxK	1032.34	Joback Method
cpg	1197.65	J/molxK	1068.25	Joback Method
cpg	1210.76	J/molxK	1104.16	Joback Method
cpg	1222.74	J/molxK	1140.07	Joback Method
cpg	1233.63	J/molxK	1175.99	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=U360923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360923&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>

# 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/65-166-6/Glutaric-acid-monoamide-N-3-methylphenyl-dodecyl-ester.pdf>

Generated by Cheméo on 2024-04-20 05:21:16.73507946 +0000 UTC m=+15879725.655656772.

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