

# Glutaric acid, monoamide, N-methyl-N-benzyl-, pentadecyl ester

Inchi:	InChI=1S/C28H47NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-18-24-32-28(31)23-19-22-27(30)
InchiKey:	WVZJGIFULZWVPM-UHFFFAOYSA-N
Formula:	C28H47NO3
SMILES:	CCCCCCCCCCCCCOC(=O)CCCC(=O)N(C)Cc1ccccc1
Mol. weight [g/mol]:	445.68

## Physical Properties

Property code	Value	Unit	Source
gf	45.23	kJ/mol	Joback Method
hf	-674.57	kJ/mol	Joback Method
hfus	69.72	kJ/mol	Joback Method
hvap	98.14	kJ/mol	Joback Method
log10ws	-8.35		Crippen Method
logp	7.450		Crippen Method
mcvol	400.610	ml/mol	McGowan Method
pc	831.46	kPa	Joback Method
rinpola	3495.00		NIST Webbook
tb	1009.32	K	Joback Method
tc	1239.62	K	Joback Method
tf	586.30	K	Joback Method
vc	1.544	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.87	J/molxK	1009.32	Joback Method
cpg	1404.25	J/molxK	1047.70	Joback Method
cpg	1422.13	J/molxK	1086.09	Joback Method
cpg	1438.59	J/molxK	1124.47	Joback Method
cpg	1453.75	J/molxK	1162.86	Joback Method
cpg	1467.72	J/molxK	1201.24	Joback Method
cpg	1480.59	J/molxK	1239.62	Joback Method

# Sources

<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=U360848&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360848&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>

# 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/54-411-5/Glutaric-acid-monoamide-N-methyl-N-benzyl-pentadecyl-ester.pdf>

Generated by Cheméo on 2024-04-25 20:44:56.752570233 +0000 UTC m=+16367145.673147545.

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