

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

Inchi:	InChI=1S/C27H45NO3/c1-3-4-5-6-7-8-9-10-11-12-13-17-23-31-27(30)22-18-21-26(29)28
InchiKey:	DTVLWHGGDIICTD-UHFFFAOYSA-N
Formula:	C27H45NO3
SMILES:	CCCCCCCCCCCCCOC(=O)CCCC(=O)N(C)Cc1ccccc1
Mol. weight [g/mol]:	431.65

## Physical Properties

Property code	Value	Unit	Source
gf	36.81	kJ/mol	Joback Method
hf	-653.93	kJ/mol	Joback Method
hfus	67.13	kJ/mol	Joback Method
hvap	95.92	kJ/mol	Joback Method
log10ws	-7.93		Crippen Method
logp	7.060		Crippen Method
mvol	386.520	ml/mol	McGowan Method
pc	879.48	kPa	Joback Method
rinpol	3380.00		NIST Webbook
tb	986.44	K	Joback Method
tc	1209.20	K	Joback Method
tf	575.03	K	Joback Method
vc	1.488	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1321.25	J/mol×K	986.44	Joback Method
cpg	1340.15	J/mol×K	1023.57	Joback Method
cpg	1357.61	J/mol×K	1060.69	Joback Method
cpg	1373.74	J/mol×K	1097.82	Joback Method
cpg	1388.62	J/mol×K	1134.94	Joback Method
cpg	1402.34	J/mol×K	1172.07	Joback Method
cpg	1415.01	J/mol×K	1209.20	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=U360847&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360847&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>mccol:</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

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