

# Glutaric acid, monoamide, N-dodecyl-, pentyl ester

Inchi:	InChI=1S/C22H43NO3/c1-3-5-7-8-9-10-11-12-13-14-19-23-21(24)17-16-18-22(25)26-20
InchiKey:	RFBOEUXUCFUUGJ-UHFFFAOYSA-N
Formula:	C22H43NO3
SMILES:	CCCCCCCCCCCCNC(=O)CCCC(=O)OCCCCC
Mol. weight [g/mol]:	369.58

## Physical Properties

Property code	Value	Unit	Source
gf	-139.09	kJ/mol	Joback Method
hf	-801.32	kJ/mol	Joback Method
hfus	62.22	kJ/mol	Joback Method
hvap	86.90	kJ/mol	Joback Method
log10ws	-6.86		Crippen Method
logp	5.927		Crippen Method
mcvol	339.830	ml/mol	McGowan Method
pc	971.70	kPa	Joback Method
rinpol	3208.00		NIST Webbook
rinpol	3208.00		NIST Webbook
tb	883.09	K	Joback Method
tc	1081.24	K	Joback Method
tf	512.45	K	Joback Method
vc	1.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1125.66	J/molxK	883.09	Joback Method
cpg	1144.72	J/molxK	916.11	Joback Method
cpg	1162.56	J/molxK	949.14	Joback Method
cpg	1179.23	J/molxK	982.16	Joback Method
cpg	1194.77	J/molxK	1015.19	Joback Method
cpg	1209.21	J/molxK	1048.21	Joback Method
cpg	1222.61	J/molxK	1081.24	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360869&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360869&amp;Units=SI</a>
<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>

# 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>hvp:</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>rinp:</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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