

# Glutaric acid, monoamide, N,N-di(4-methylphenyl)-, pentyl ester

<b>Inchi:</b>	InChI=1S/C24H31NO3/c1-4-5-6-18-28-24(27)9-7-8-23(26)25(21-14-10-19(2)11-15-21)22
<b>InchiKey:</b>	UUODRBPOVXJODV-UHFFFAOYSA-N
<b>Formula:</b>	C24H31NO3
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)N(c1ccc(C)cc1)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	381.51

## Physical Properties

Property code	Value	Unit	Source
gf	104.70	kJ/mol	Joback Method
hf	-378.42	kJ/mol	Joback Method
hfus	52.63	kJ/mol	Joback Method
hvap	92.84	kJ/mol	Joback Method
log10ws	-6.53		Crippen Method
logp	5.872		Crippen Method
mcvol	320.490	ml/mol	McGowan Method
pc	1291.14	kPa	Joback Method
rinpola	2896.00		NIST Webbook
rinpola	2896.00		NIST Webbook
tb	954.44	K	Joback Method
tc	1176.69	K	Joback Method
tf	592.68	K	Joback Method
vc	1.212	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1030.51	J/molxK	954.44	Joback Method
cpg	1045.65	J/molxK	991.48	Joback Method
cpg	1059.52	J/molxK	1028.52	Joback Method
cpg	1072.21	J/molxK	1065.57	Joback Method
cpg	1083.78	J/molxK	1102.61	Joback Method
cpg	1094.30	J/molxK	1139.65	Joback Method
cpg	1103.86	J/molxK	1176.69	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=U360233&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360233&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

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