

# Glutaric acid, monoamide, N-(2-methoxybenzyl)-, dodecyl ester

Inchi:	InChI=1S/C25H41NO4/c1-3-4-5-6-7-8-9-10-11-14-20-30-25(28)19-15-18-24(27)26-21-22
InchiKey:	MUIKADYQDOLVGH-UHFFFAOYSA-N
Formula:	C25H41NO4
SMILES:	CCCCCCCCCCCCOC(=O)CCCC(=O)NCc1ccccc1OC
Mol. weight [g/mol]:	419.60

## Physical Properties

Property code	Value	Unit	Source
gf	-116.05	kJ/mol	Joback Method
hf	-770.40	kJ/mol	Joback Method
hfus	64.83	kJ/mol	Joback Method
hvap	98.93	kJ/mol	Joback Method
log10ws	-7.41		Crippen Method
logp	5.946		Crippen Method
mcvol	364.210	ml/mol	McGowan Method
pc	978.40	kPa	Joback Method
rinpola	3340.00		NIST Webbook
tb	1005.81	K	Joback Method
tc	1232.72	K	Joback Method
tf	607.43	K	Joback Method
vc	1.411	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1242.14	J/mol×K	1005.81	Joback Method
cpg	1258.63	J/mol×K	1043.63	Joback Method
cpg	1273.52	J/mol×K	1081.45	Joback Method
cpg	1286.87	J/mol×K	1119.27	Joback Method
cpg	1298.73	J/mol×K	1157.09	Joback Method
cpg	1309.16	J/mol×K	1194.91	Joback Method
cpg	1318.22	J/mol×K	1232.72	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=U360035&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360035&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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

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