

# Glutaric acid, monoamide, N-butyl-N-phenyl-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C30H51NO3/c1-3-5-7-8-9-10-11-12-13-14-15-16-20-27-34-30(33)25-21-24-29
<b>InchiKey:</b>	SYQXYOUUYFGBLJ-UHFFFAOYSA-N
<b>Formula:</b>	C30H51NO3
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CCCC(=O)N(CCCC)c1ccccc1
<b>Mol. weight [g/mol]:</b>	473.73

## Physical Properties

Property code	Value	Unit	Source
gf	62.07	kJ/mol	Joback Method
hf	-715.85	kJ/mol	Joback Method
hfus	74.90	kJ/mol	Joback Method
hvap	102.59	kJ/mol	Joback Method
log10ws	-9.23		Crippen Method
logp	8.624		Crippen Method
mcvol	428.790	ml/mol	McGowan Method
pc	746.51	kPa	Joback Method
rinqol	3473.00		NIST Webbook
tb	1055.08	K	Joback Method
tc	1304.28	K	Joback Method
tf	608.84	K	Joback Method
vc	1.655	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1513.29	J/molxK	1055.08	Joback Method
cpg	1533.86	J/molxK	1096.61	Joback Method
cpg	1552.72	J/molxK	1138.15	Joback Method
cpg	1570.00	J/molxK	1179.68	Joback Method
cpg	1585.84	J/molxK	1221.21	Joback Method
cpg	1600.40	J/molxK	1262.74	Joback Method
cpg	1613.82	J/molxK	1304.28	Joback Method

# Sources

<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=U360183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360183&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>
<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>

# 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>h vap:</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>m cvol:</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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