

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

Inchi:	InChI=1S/C21H33NO3/c1-3-5-7-11-18-25-21(24)16-12-15-20(23)22(17-6-4-2)19-13-9-8-
InchiKey:	ATRODHSZNSDEAS-UHFFFAOYSA-N
Formula:	C21H33NO3
SMILES:	CCCCCOC(=O)CCCC(=O)N(CCCC)c1ccccc1
Mol. weight [g/mol]:	347.49

## Physical Properties

Property code	Value	Unit	Source
gf	-13.71	kJ/mol	Joback Method
hf	-530.09	kJ/mol	Joback Method
hfus	51.59	kJ/mol	Joback Method
hvap	82.56	kJ/mol	Joback Method
log10ws	-5.46		Crippen Method
logp	5.114		Crippen Method
mcvol	301.980	ml/mol	McGowan Method
pc	1279.16	kPa	Joback Method
rinpola	2543.00		NIST Webbook
tb	849.16	K	Joback Method
tc	1048.11	K	Joback Method
tf	507.41	K	Joback Method
vc	1.151	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	950.52	J/mol×K	849.16	Joback Method
cpg	967.43	J/mol×K	882.32	Joback Method
cpg	983.23	J/mol×K	915.48	Joback Method
cpg	997.96	J/mol×K	948.64	Joback Method
cpg	1011.67	J/mol×K	981.79	Joback Method
cpg	1024.41	J/mol×K	1014.95	Joback Method
cpg	1036.23	J/mol×K	1048.11	Joback Method

# Sources

<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>
<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=U360175&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360175&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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