

# Glutaric acid, monoamide, N-methyl-N-benzyl-, heptyl ester

Inchi:	InChI=1S/C20H31NO3/c1-3-4-5-6-10-16-24-20(23)15-11-14-19(22)21(2)17-18-12-8-7-9-
InchiKey:	LILVLIMWOPBRGN-UHFFFAOYSA-N
Formula:	C20H31NO3
SMILES:	CCCCCCCOC(=O)CCCC(=O)N(C)Cc1ccccc1
Mol. weight [g/mol]:	333.46

## Physical Properties

Property code	Value	Unit	Source
gf	-22.13	kJ/mol	Joback Method
hf	-509.45	kJ/mol	Joback Method
hfus	49.00	kJ/mol	Joback Method
hvap	80.33	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.329		Crippen Method
mcvol	287.890	ml/mol	McGowan Method
pc	1371.74	kPa	Joback Method
rinpol	2648.00		NIST Webbook
rinpol	2648.00		NIST Webbook
tb	826.28	K	Joback Method
tc	1024.21	K	Joback Method
tf	496.14	K	Joback Method
vc	1.095	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	891.01	J/mol×K	826.28	Joback Method
cpg	907.69	J/mol×K	859.27	Joback Method
cpg	923.29	J/mol×K	892.26	Joback Method
cpg	937.83	J/mol×K	925.25	Joback Method
cpg	951.39	J/mol×K	958.24	Joback Method
cpg	963.99	J/mol×K	991.22	Joback Method
cpg	975.69	J/mol×K	1024.21	Joback Method

# Sources

<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=U360842&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360842&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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