

# Glutaric acid, monoamide, N-(4-methylbenzyl)-, isobutyl ester

Inchi:	InChI=1S/C17H25NO3/c1-13(2)12-21-17(20)6-4-5-16(19)18-11-15-9-7-14(3)8-10-15/h7-
InchiKey:	BLACNMQZTBUICU-UHFFFAOYSA-N
Formula:	C17H25NO3
SMILES:	<chem>Cc1ccc(CNC(=O)CCCC(=O)OCC(C)C)cc1</chem>
Mol. weight [g/mol]:	291.39

## Physical Properties

Property code	Value	Unit	Source
gf	-80.85	kJ/mol	Joback Method
hf	-478.34	kJ/mol	Joback Method
hfus	39.40	kJ/mol	Joback Method
hvap	78.32	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	2.981		Crippen Method
mcvol	245.620	ml/mol	McGowan Method
pc	1730.34	kPa	Joback Method
rinpola	2398.00		NIST Webbook
tb	799.91	K	Joback Method
tc	1005.41	K	Joback Method
tf	480.04	K	Joback Method
vc	0.939	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	733.88	J/mol×K	799.91	Joback Method
cpg	749.14	J/mol×K	834.16	Joback Method
cpg	763.35	J/mol×K	868.41	Joback Method
cpg	776.54	J/mol×K	902.66	Joback Method
cpg	788.75	J/mol×K	936.91	Joback Method
cpg	800.01	J/mol×K	971.16	Joback Method
cpg	810.35	J/mol×K	1005.41	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360010&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360010&amp;Units=SI</a>
<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>

# 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>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

Latest version available from:

<https://www.chemeo.com/cid/20-989-2/Glutaric-acid-monoamide-N-4-methylbenzyl-isobutyl-ester.pdf>

Generated by Cheméo on 2024-04-24 18:26:23.024525072 +0000 UTC m=+16272431.945102388.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.