

# Glutaric acid, 3-methylbut-2-yl 5-methyl-2-methoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C18H26O5/c1-12(2)14(4)22-17(19)7-6-8-18(20)23-16-11-13(3)9-10-15(16)21-5
<b>InchiKey:</b>	CZEMBKSEAODHFV-UHFFFAOYSA-N
<b>Formula:</b>	C18H26O5
<b>SMILES:</b>	COc1ccc(C)cc1OC(=O)CCCC(=O)OC(C)C(C)C
<b>Mol. weight [g/mol]:</b>	322.40

## Physical Properties

Property code	Value	Unit	Source
gf	-383.89	kJ/mol	Joback Method
hf	-833.64	kJ/mol	Joback Method
hfus	35.35	kJ/mol	Joback Method
hvap	79.21	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.667		Crippen Method
mcvol	261.470	ml/mol	McGowan Method
pc	1533.06	kPa	Joback Method
rinpol	2244.00		NIST Webbook
rinpol	2244.00		NIST Webbook
tb	822.00	K	Joback Method
tc	1027.16	K	Joback Method
tf	480.63	K	Joback Method
vc	0.990	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	790.30	J/molxK	822.00	Joback Method
cpg	805.77	J/molxK	856.19	Joback Method
cpg	820.06	J/molxK	890.39	Joback Method
cpg	833.18	J/molxK	924.58	Joback Method
cpg	845.13	J/molxK	958.77	Joback Method
cpg	855.90	J/molxK	992.96	Joback Method
cpg	865.50	J/molxK	1027.16	Joback Method
dvisc	0.0005532	Paxs	480.63	Joback Method

dvisc	0.0002940	Paxs	537.52	Joback Method
dvisc	0.0001763	Paxs	594.42	Joback Method
dvisc	0.0001156	Paxs	651.32	Joback Method
dvisc	0.0000812	Paxs	708.21	Joback Method
dvisc	0.0000600	Paxs	765.11	Joback Method
dvisc	0.0000463	Paxs	822.00	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=U393921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393921&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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/89-215-5/Glutaric-acid-3-methylbut-2-yl-5-methyl-2-methoxybenzyl-ester.pdf>

Generated by Cheméo on 2024-04-27 10:30:58.32108074 +0000 UTC m=+16503107.241658114.

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