

# Glutaric acid, 2-methylpent-3-yl 3-methyl-5-methoxypentyl ester

<b>Inchi:</b>	InChI=1S/C18H34O5/c1-6-16(14(2)3)23-18(20)9-7-8-17(19)22-13-11-15(4)10-12-21-5/h
<b>InchiKey:</b>	QTICCDWRMKLHKE-UHFFFAOYSA-N
<b>Formula:</b>	C18H34O5
<b>SMILES:</b>	CCC(OC(=O)CCCC(=O)OCCC(C)CCOC)C(C)C
<b>Mol. weight [g/mol]:</b>	330.46

## Physical Properties

Property code	Value	Unit	Source
gf	-479.48	kJ/mol	Joback Method
hf	-1052.51	kJ/mol	Joback Method
hfus	38.57	kJ/mol	Joback Method
hvap	75.22	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.740		Crippen Method
mcvol	285.230	ml/mol	McGowan Method
pc	1233.74	kPa	Joback Method
rinpola	2078.00		NIST Webbook
rinpola	2078.00		NIST Webbook
tb	784.92	K	Joback Method
tc	969.58	K	Joback Method
tf	414.17	K	Joback Method
vc	1.091	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.95	J/molxK	784.92	Joback Method
cpg	899.52	J/molxK	815.70	Joback Method
cpg	916.05	J/molxK	846.47	Joback Method
cpg	931.55	J/molxK	877.25	Joback Method
cpg	946.01	J/molxK	908.03	Joback Method
cpg	959.45	J/molxK	938.80	Joback Method
cpg	971.86	J/molxK	969.58	Joback Method
dvisc	0.0012351	Paxs	414.17	Joback Method

dvisc	0.0004857	Paxs	475.96	Joback Method
dvisc	0.0002367	Paxs	537.75	Joback Method
dvisc	0.0001338	Paxs	599.55	Joback Method
dvisc	0.0000841	Paxs	661.34	Joback Method
dvisc	0.0000573	Paxs	723.13	Joback Method
dvisc	0.0000414	Paxs	784.92	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=U393519&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393519&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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

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