

# Glutaric acid, isohexyl 5-methoxy-3-methylpentyl ester

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

## Physical Properties

Property code	Value	Unit	Source
gf	-477.04	kJ/mol	Joback Method
hf	-1047.23	kJ/mol	Joback Method
hfus	42.09	kJ/mol	Joback Method
hvap	75.61	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.742		Crippen Method
mcvol	285.230	ml/mol	McGowan Method
pc	1226.84	kPa	Joback Method
rinpola	2234.00		NIST Webbook
tb	785.36	K	Joback Method
tc	968.70	K	Joback Method
tf	429.17	K	Joback Method
vc	1.097	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.46	J/molxK	785.36	Joback Method
cpg	898.90	J/molxK	815.92	Joback Method
cpg	915.32	J/molxK	846.47	Joback Method
cpg	930.73	J/molxK	877.03	Joback Method
cpg	945.13	J/molxK	907.59	Joback Method
cpg	958.52	J/molxK	938.14	Joback Method
cpg	970.92	J/molxK	968.70	Joback Method
dvisc	0.0010058	Paxs	429.17	Joback Method
dvisc	0.0004376	Paxs	488.53	Joback Method

dvisc	0.0002280	Paxs	547.90	Joback Method
dvisc	0.0001349	Paxs	607.26	Joback Method
dvisc	0.0000877	Paxs	666.63	Joback Method
dvisc	0.0000611	Paxs	726.00	Joback Method
dvisc	0.0000450	Paxs	785.36	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360077&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360077&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>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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