

# Glutaric acid, ethyl 5-methoxy-3-phenylpentyl ester

Inchi:	InChI=1S/C19H28O5/c1-3-23-18(20)10-7-11-19(21)24-15-13-17(12-14-22-2)16-8-5-4-6-9
InchiKey:	VNGWIWCEQXRDCG-UHFFFAOYSA-N
Formula:	C19H28O5
SMILES:	CCOC(=O)CCCC(=O)OCCC(CCOC)c1ccccc1
Mol. weight [g/mol]:	336.42

## Physical Properties

Property code	Value	Unit	Source
gf	-353.77	kJ/mol	Joback Method
hf	-826.06	kJ/mol	Joback Method
hfus	42.25	kJ/mol	Joback Method
hvap	80.50	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.473		Crippen Method
mcvol	275.560	ml/mol	McGowan Method
pc	1447.94	kPa	Joback Method
rinqol	2404.00		NIST Webbook
tb	835.36	K	Joback Method
tc	1036.71	K	Joback Method
tf	481.86	K	Joback Method
vc	1.052	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	849.41	J/molxK	835.36	Joback Method
cpg	865.08	J/molxK	868.92	Joback Method
cpg	879.57	J/molxK	902.48	Joback Method
cpg	892.90	J/molxK	936.03	Joback Method
cpg	905.07	J/molxK	969.59	Joback Method
cpg	916.10	J/molxK	1003.15	Joback Method
cpg	925.99	J/molxK	1036.71	Joback Method
dvisc	0.0006138	Paxs	481.86	Joback Method
dvisc	0.0003094	Paxs	540.78	Joback Method

dvisc	0.0001785	Paxs	599.69	Joback Method
dvisc	0.0001136	Paxs	658.61	Joback Method
dvisc	0.0000779	Paxs	717.53	Joback Method
dvisc	0.0000565	Paxs	776.44	Joback Method
dvisc	0.0000429	Paxs	835.36	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=U359527&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359527&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>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/24-690-9/Glutaric-acid-ethyl-5-methoxy-3-phenylpentyl-ester.pdf>

Generated by Cheméo on 2024-04-24 14:59:08.677637102 +0000 UTC m=+16259997.598214417.

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