

# Diethylmalonic acid, 5-methoxy-3-methylpentyl propyl ester

Inchi:	InChI=1S/C17H32O5/c1-6-11-21-15(18)17(7-2,8-3)16(19)22-13-10-14(4)9-12-20-5/h14H
InchiKey:	QEAVHXRAIYNBTN-UHFFFAOYSA-N
Formula:	C17H32O5
SMILES:	CCCOC(=O)C(CC)(CC)C(=O)OCCC(C)CCOC
Mol. weight [g/mol]:	316.43

## Physical Properties

Property code	Value	Unit	Source
gf	-480.18	kJ/mol	Joback Method
hf	-1030.06	kJ/mol	Joback Method
hfus	35.61	kJ/mol	Joback Method
hvap	72.47	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.352		Crippen Method
mcvol	271.140	ml/mol	McGowan Method
pc	1324.24	kPa	Joback Method
rinpol	1859.00		NIST Webbook
tb	759.69	K	Joback Method
tc	944.40	K	Joback Method
tf	435.32	K	Joback Method
vc	1.036	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	823.69	J/molxK	759.69	Joback Method
cpg	840.79	J/molxK	790.47	Joback Method
cpg	856.91	J/molxK	821.26	Joback Method
cpg	872.07	J/molxK	852.04	Joback Method
cpg	886.28	J/molxK	882.83	Joback Method
cpg	899.55	J/molxK	913.61	Joback Method
cpg	911.90	J/molxK	944.40	Joback Method
dvisc	0.0009176	Paxs	435.32	Joback Method
dvisc	0.0004234	Paxs	489.38	Joback Method

dvisc	0.0002278	Paxs	543.44	Joback Method
dvisc	0.0001372	Paxs	597.50	Joback Method
dvisc	0.0000898	Paxs	651.57	Joback Method
dvisc	0.0000628	Paxs	705.63	Joback Method
dvisc	0.0000462	Paxs	759.69	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=U370762&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370762&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

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