

# Dimethylmalonic acid, 4-(4-methoxyphenyl)cyclohexyl nonyl ester

Inchi:	InChI=1S/C27H42O5/c1-5-6-7-8-9-10-11-20-31-25(28)27(2,3)26(29)32-24-18-14-22(15-19)
InchiKey:	ISYULXCEQSQXKG-UHFFFAOYSA-N
Formula:	C27H42O5
SMILES:	CCCCCCCCCOC(=O)C(C)(C)C(=O)OC1CCC(c2ccc(OC)cc2)CC1
Mol. weight [g/mol]:	446.62

## Physical Properties

Property code	Value	Unit	Source
gf	-274.02	kJ/mol	Joback Method
hf	-972.14	kJ/mol	Joback Method
hfus	51.59	kJ/mol	Joback Method
hvap	98.18	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	6.585		Crippen Method
mcvol	377.420	ml/mol	McGowan Method
pc	959.69	kPa	Joback Method
rinsol	3303.00		NIST Webbook
tb	1035.47	K	Joback Method
tc	1268.10	K	Joback Method
tf	605.10	K	Joback Method
vc	1.427	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1333.57	J/molxK	1035.47	Joback Method
cpg	1393.01	J/molxK	1229.33	Joback Method
cpg	1384.79	J/molxK	1190.56	Joback Method
cpg	1374.79	J/molxK	1151.79	Joback Method
cpg	1362.97	J/molxK	1113.01	Joback Method
cpg	1349.25	J/molxK	1074.24	Joback Method
cpg	1399.54	J/molxK	1268.10	Joback Method
dvisc	0.0000149	Paxs	1035.47	Joback Method
dvisc	0.0000196	Paxs	963.74	Joback Method

dvisc	0.0000270	Paxs	892.01	Joback Method
dvisc	0.0000392	Paxs	820.28	Joback Method
dvisc	0.0000611	Paxs	748.56	Joback Method
dvisc	0.0001048	Paxs	676.83	Joback Method
dvisc	0.0002044	Paxs	605.10	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U363921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363921&amp;Units=SI</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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