

# Diethylmalonic acid, 2,6-dimethoxyphenyl nonyl ester

Inchi:	InChI=1S/C24H38O6/c1-6-9-10-11-12-13-14-18-29-22(25)24(7-2,8-3)23(26)30-21-19(27
InchiKey:	YAWOELZFWWBZEX-UHFFFAOYSA-N
Formula:	C24H38O6
SMILES:	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	422.55

## Physical Properties

Property code	Value	Unit	Source
gf	-430.65	kJ/mol	Joback Method
hf	-1087.89	kJ/mol	Joback Method
hfus	51.71	kJ/mol	Joback Method
hvap	94.45	kJ/mol	Joback Method
log10ws	-6.51		Crippen Method
logp	5.709		Crippen Method
mcvol	351.880	ml/mol	McGowan Method
pc	1011.66	kPa	Joback Method
rinsol	2765.00		NIST Webbook
tb	979.35	K	Joback Method
tc	1199.05	K	Joback Method
tf	602.90	K	Joback Method
vc	1.345	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1177.50	J/molxK	979.35	Joback Method
cpg	1238.52	J/molxK	1162.43	Joback Method
cpg	1229.50	J/molxK	1125.81	Joback Method
cpg	1218.91	J/molxK	1089.20	Joback Method
cpg	1206.73	J/molxK	1052.58	Joback Method
cpg	1192.94	J/molxK	1015.97	Joback Method
cpg	1246.01	J/molxK	1199.05	Joback Method
dvisc	0.0000131	Paxs	979.35	Joback Method
dvisc	0.0000169	Paxs	916.61	Joback Method

dvisc	0.0000228	Paxs	853.87	Joback Method
dvisc	0.0000322	Paxs	791.12	Joback Method
dvisc	0.0000483	Paxs	728.38	Joback Method
dvisc	0.0000783	Paxs	665.64	Joback Method
dvisc	0.0001401	Paxs	602.90	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=U369816&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369816&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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