

# Succinic acid, dodec-2-en-1-yl 2-methoxy-5-methylphenyl ester

Inchi:	InChI=1S/C24H36O5/c1-4-5-6-7-8-9-10-11-12-13-18-28-23(25)16-17-24(26)29-22-19-20
InchiKey:	MUXCHUFIFMSGES-OUKQBFOZSA-N
Formula:	C24H36O5
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)Oc1cc(C)ccc1OC
Mol. weight [g/mol]:	404.54

## Physical Properties

Property code	Value	Unit	Source
gf	-248.27	kJ/mol	Joback Method
hf	-829.70	kJ/mol	Joback Method
hfus	58.14	kJ/mol	Joback Method
hvap	93.30	kJ/mol	Joback Method
log10ws	-6.96		Crippen Method
logp	5.929		Crippen Method
mvol	341.710	ml/mol	McGowan Method
pc	1044.62	kPa	Joback Method
rinpol	2978.00		NIST Webbook
rinpol	2978.00		NIST Webbook
tb	964.32	K	Joback Method
tc	1180.83	K	Joback Method
tf	573.17	K	Joback Method
vc	1.317	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.15	J/molxK	964.32	Joback Method
cpg	1136.03	J/molxK	1000.40	Joback Method
cpg	1150.49	J/molxK	1036.49	Joback Method
cpg	1163.56	J/molxK	1072.57	Joback Method
cpg	1175.27	J/molxK	1108.66	Joback Method
cpg	1185.65	J/molxK	1144.74	Joback Method
cpg	1194.74	J/molxK	1180.83	Joback Method
dvisc	0.0002167	Paxs	573.17	Joback Method

dvisc	0.0001196	Paxs	638.36	Joback Method
dvisc	0.0000737	Paxs	703.55	Joback Method
dvisc	0.0000493	Paxs	768.74	Joback Method
dvisc	0.0000351	Paxs	833.94	Joback Method
dvisc	0.0000263	Paxs	899.13	Joback Method
dvisc	0.0000204	Paxs	964.32	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=U390969&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390969&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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