

# Succinic acid, naphth-2-ylmethyl 2-methoxy-5-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C23H22O5/c1-16-7-10-20(26-2)21(13-16)28-23(25)12-11-22(24)27-15-17-8-9-
<b>InchiKey:</b>	NNAUBWJCNSVSEK-UHFFFAOYSA-N
<b>Formula:</b>	C23H22O5
<b>SMILES:</b>	COc1ccc(C)cc1OC(=O)CCC(=O)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	378.42

## Physical Properties

Property code	Value	Unit	Source
gf	-127.48	kJ/mol	Joback Method
hf	-510.15	kJ/mol	Joback Method
hfus	46.02	kJ/mol	Joback Method
hvap	95.69	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	4.586		Crippen Method
mvol	288.700	ml/mol	McGowan Method
pc	1614.17	kPa	Joback Method
rinpol	3286.00		NIST Webbook
rinpol	3286.00		NIST Webbook
tb	987.92	K	Joback Method
tc	1225.53	K	Joback Method
tf	638.62	K	Joback Method
vc	1.095	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	898.75	J/molxK	987.92	Joback Method
cpg	910.58	J/molxK	1027.52	Joback Method
cpg	921.06	J/molxK	1067.12	Joback Method
cpg	930.23	J/molxK	1106.73	Joback Method
cpg	938.16	J/molxK	1146.33	Joback Method
cpg	944.88	J/molxK	1185.93	Joback Method
cpg	950.46	J/molxK	1225.53	Joback Method
dvisc	0.0003074	Paxs	638.62	Joback Method

dvisc	0.0002090	Paxs	696.84	Joback Method
dvisc	0.0001508	Paxs	755.05	Joback Method
dvisc	0.0001140	Paxs	813.27	Joback Method
dvisc	0.0000895	Paxs	871.49	Joback Method
dvisc	0.0000724	Paxs	929.70	Joback Method
dvisc	0.0000600	Paxs	987.92	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=U390971&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390971&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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