

# Succinic acid, naphth-2-ylmethyl 3-phenylpropyl ester

<b>Inchi:</b>	InChI=1S/C24H24O4/c25-23(27-16-6-9-19-7-2-1-3-8-19)14-15-24(26)28-18-20-12-13-21
<b>InchiKey:</b>	BWPUAGZNUMLIGW-UHFFFAOYSA-N
<b>Formula:</b>	C24H24O4
<b>SMILES:</b>	O=C(CCC(=O)OCc1ccc2ccccc2c1)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	376.44

## Physical Properties

Property code	Value	Unit	Source
gf	5.20	kJ/mol	Joback Method
hf	-375.63	kJ/mol	Joback Method
hfus	48.20	kJ/mol	Joback Method
hvap	94.18	kJ/mol	Joback Method
log10ws	-6.43		Crippen Method
logp	4.839		Crippen Method
mvol	296.920	ml/mol	McGowan Method
pc	1552.45	kPa	Joback Method
rinpol	3308.00		NIST Webbook
rinpol	3308.00		NIST Webbook
tb	978.42	K	Joback Method
tc	1213.90	K	Joback Method
tf	602.62	K	Joback Method
vc	1.133	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	934.30	J/molxK	978.42	Joback Method
cpg	947.44	J/molxK	1017.67	Joback Method
cpg	959.41	J/molxK	1056.91	Joback Method
cpg	970.31	J/molxK	1096.16	Joback Method
cpg	980.22	J/molxK	1135.41	Joback Method
cpg	989.24	J/molxK	1174.66	Joback Method
cpg	997.47	J/molxK	1213.90	Joback Method
dvisc	0.0004557	Paxs	602.62	Joback Method

dvisc	0.0002841	Paxs	665.25	Joback Method
dvisc	0.0001921	Paxs	727.89	Joback Method
dvisc	0.0001382	Paxs	790.52	Joback Method
dvisc	0.0001044	Paxs	853.15	Joback Method
dvisc	0.0000819	Paxs	915.79	Joback Method
dvisc	0.0000663	Paxs	978.42	Joback Method

## Sources

<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=U389739&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389739&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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