

# Succinic acid, naphth-2-ylmethyl 1-phenylpropyl ester

<b>Inchi:</b>	InChI=1S/C24H24O4/c1-2-22(20-9-4-3-5-10-20)28-24(26)15-14-23(25)27-17-18-12-13-1
<b>InchiKey:</b>	HLLCKTLNMPYUDF-UHFFFAOYSA-N
<b>Formula:</b>	C24H24O4
<b>SMILES:</b>	CCC(OC(=O)CCC(=O)OCc1ccc2ccccc2c1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	376.44

## Physical Properties

Property code	Value	Unit	Source
gf	2.76	kJ/mol	Joback Method
hf	-380.91	kJ/mol	Joback Method
hfus	44.68	kJ/mol	Joback Method
hvap	93.80	kJ/mol	Joback Method
log10ws	-6.88		Crippen Method
logp	5.358		Crippen Method
mvol	296.920	ml/mol	McGowan Method
pc	1562.28	kPa	Joback Method
rinpol	3047.00		NIST Webbook
rinpol	3047.00		NIST Webbook
tb	977.98	K	Joback Method
tc	1215.73	K	Joback Method
tf	587.62	K	Joback Method
vc	1.127	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	934.73	J/molxK	977.98	Joback Method
cpg	947.92	J/molxK	1017.60	Joback Method
cpg	959.92	J/molxK	1057.23	Joback Method
cpg	970.80	J/molxK	1096.85	Joback Method
cpg	980.66	J/molxK	1136.48	Joback Method
cpg	989.60	J/molxK	1176.10	Joback Method
cpg	997.72	J/molxK	1215.73	Joback Method
dvisc	0.0004831	Paxs	587.62	Joback Method

dvisc	0.0002874	Paxs	652.68	Joback Method
dvisc	0.0001878	Paxs	717.74	Joback Method
dvisc	0.0001317	Paxs	782.80	Joback Method
dvisc	0.0000976	Paxs	847.86	Joback Method
dvisc	0.0000754	Paxs	912.92	Joback Method
dvisc	0.0000603	Paxs	977.98	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389938&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389938&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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