

# Succinic acid, phenethyl 2-biphenyl ester

<b>Inchi:</b>	InChI=1S/C24H22O4/c25-23(27-18-17-19-9-3-1-4-10-19)15-16-24(26)28-22-14-8-7-13-2
<b>InchiKey:</b>	NDCKSFNSZNPVSU-UHFFFAOYSA-N
<b>Formula:</b>	C24H22O4
<b>SMILES:</b>	O=C(CCC(=O)Oc1ccccc1-c1ccccc1)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	374.43

## Physical Properties

Property code	Value	Unit	Source
gf	10.96	kJ/mol	Joback Method
hf	-330.17	kJ/mol	Joback Method
hfus	45.22	kJ/mol	Joback Method
hvap	94.82	kJ/mol	Joback Method
log10ws	-6.54		Crippen Method
logp	4.825		Crippen Method
mvol	292.620	ml/mol	McGowan Method
pc	1663.26	kPa	Joback Method
rinpol	3047.00		NIST Webbook
rinpol	3047.00		NIST Webbook
tb	986.12	K	Joback Method
tc	1230.95	K	Joback Method
tf	596.34	K	Joback Method
vc	1.103	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	909.65	J/molxK	986.12	Joback Method
cpg	956.35	J/molxK	1190.14	Joback Method
cpg	949.61	J/molxK	1149.34	Joback Method
cpg	941.64	J/molxK	1108.53	Joback Method
cpg	932.38	J/molxK	1067.73	Joback Method
cpg	921.75	J/molxK	1026.92	Joback Method
cpg	961.96	J/molxK	1230.95	Joback Method
dvisc	0.0000329	Paxs	986.12	Joback Method

dvisc	0.0000418	Paxs	921.16	Joback Method
dvisc	0.0000552	Paxs	856.19	Joback Method
dvisc	0.0000761	Paxs	791.23	Joback Method
dvisc	0.0001112	Paxs	726.27	Joback Method
dvisc	0.0001751	Paxs	661.30	Joback Method
dvisc	0.0003044	Paxs	596.34	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358008&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358008&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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