

# Succinic acid, 2-methylphenyl 2-biphenyl ester

<b>Inchi:</b>	InChI=1S/C23H20O4/c1-17-9-5-7-13-20(17)26-22(24)15-16-23(25)27-21-14-8-6-12-19(2
<b>InchiKey:</b>	UZFIFGAWWOEWQB-UHFFFAOYSA-N
<b>Formula:</b>	C23H20O4
<b>SMILES:</b>	<chem>Cc1ccccc1OC(=O)CCC(=O)Oc1ccccc1-c1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	360.40

## Physical Properties

Property code	Value	Unit	Source
gf	-7.09	kJ/mol	Joback Method
hf	-321.00	kJ/mol	Joback Method
hfus	42.24	kJ/mol	Joback Method
hvap	93.26	kJ/mol	Joback Method
log10ws	-6.83		Crippen Method
logp	4.953		Crippen Method
mvol	278.530	ml/mol	McGowan Method
pc	1778.84	kPa	Joback Method
rinpol	2896.00		NIST Webbook
rinpol	2896.00		NIST Webbook
tb	968.22	K	Joback Method
tc	1215.77	K	Joback Method
tf	597.59	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	849.94	J/molxK	968.22	Joback Method
cpg	861.92	J/molxK	1009.48	Joback Method
cpg	872.40	J/molxK	1050.74	Joback Method
cpg	881.46	J/molxK	1091.99	Joback Method
cpg	889.16	J/molxK	1133.25	Joback Method
cpg	895.58	J/molxK	1174.51	Joback Method
cpg	900.77	J/molxK	1215.77	Joback Method
dvisc	0.0003043	Paxs	597.59	Joback Method

dvisc	0.0001840	Paxs	659.36	Joback Method
dvisc	0.0001212	Paxs	721.13	Joback Method
dvisc	0.0000853	Paxs	782.90	Joback Method
dvisc	0.0000632	Paxs	844.68	Joback Method
dvisc	0.0000488	Paxs	906.45	Joback Method
dvisc	0.0000389	Paxs	968.22	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357543&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357543&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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