

# Succinic acid, 2-methylpent-3-yl 2,3-dimethylphenyl ester

**Inchi:** InChI=1S/C18H26O4/c1-6-15(12(2)3)21-17(19)10-11-18(20)22-16-9-7-8-13(4)14(16)5/h7  
**InchiKey:** GEHTXDNLWWKIPJ-UHFFFAOYSA-N  
**Formula:** C18H26O4  
**SMILES:** CCC(OC(=O)CCC(=O)Oc1cccc(C)c1C)C(C)C  
**Mol. weight [g/mol]:** 306.40

## Physical Properties

Property code	Value	Unit	Source
gf	-278.89	kJ/mol	Joback Method
hf	-701.42	kJ/mol	Joback Method
hfus	34.17	kJ/mol	Joback Method
hvap	76.80	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	3.967		Crippen Method
mcvol	255.600	ml/mol	McGowan Method
pc	1553.67	kPa	Joback Method
rinpol	2161.00		NIST Webbook
rinpol	2161.00		NIST Webbook
tb	799.58	K	Joback Method
tc	1004.92	K	Joback Method
tf	458.40	K	Joback Method
vc	0.972	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.61	J/molxK	799.58	Joback Method
cpg	777.56	J/molxK	833.80	Joback Method
cpg	792.41	J/molxK	868.03	Joback Method
cpg	806.16	J/molxK	902.25	Joback Method
cpg	818.82	J/molxK	936.47	Joback Method
cpg	830.40	J/molxK	970.70	Joback Method
cpg	840.92	J/molxK	1004.92	Joback Method
dvisc	0.0007916	Paxs	458.40	Joback Method

dvisc	0.0004085	Paxs	515.26	Joback Method
dvisc	0.0002404	Paxs	572.13	Joback Method
dvisc	0.0001557	Paxs	628.99	Joback Method
dvisc	0.0001084	Paxs	685.85	Joback Method
dvisc	0.0000798	Paxs	742.72	Joback Method
dvisc	0.0000613	Paxs	799.58	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390017&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390017&amp;Units=SI</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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