

# Succinic acid, di(2,4-dimethylpent-3-yl) ester

**Inchi:** InChI=1S/C18H34O4/c1-11(2)17(12(3)4)21-15(19)9-10-16(20)22-18(13(5)6)14(7)8/h11-14  
**InchiKey:** YJCKWPXGDRTLZ-UHFFFAOYSA-N  
**Formula:** C18H34O4  
**SMILES:** CC(C)C(OC(=O)CCC(=O)OC(C(C)C)C(C)C)C(C)C  
**Mol. weight [g/mol]:** 314.46

## Physical Properties

Property code	Value	Unit	Source
gf	-381.80	kJ/mol	Joback Method
hf	-936.13	kJ/mol	Joback Method
hfus	26.81	kJ/mol	Joback Method
hvap	71.65	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	4.214		Crippen Method
mvol	279.360	ml/mol	McGowan Method
pc	1270.06	kPa	Joback Method
rinpol	1840.00		NIST Webbook
rinpol	1840.00		NIST Webbook
tb	761.18	K	Joback Method
tc	949.75	K	Joback Method
tf	346.94	K	Joback Method
vc	1.056	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.40	J/mol×K	761.18	Joback Method
cpg	870.84	J/mol×K	792.61	Joback Method
cpg	888.20	J/mol×K	824.04	Joback Method
cpg	904.51	J/mol×K	855.46	Joback Method
cpg	919.77	J/mol×K	886.89	Joback Method
cpg	933.99	J/mol×K	918.32	Joback Method
cpg	947.20	J/mol×K	949.75	Joback Method
dvisc	0.0045436	Paxs	346.94	Joback Method

dvisc	0.0010980	Paxs	415.98	Joback Method
dvisc	0.0003976	Paxs	485.02	Joback Method
dvisc	0.0001854	Paxs	554.06	Joback Method
dvisc	0.0001024	Paxs	623.10	Joback Method
dvisc	0.0000637	Paxs	692.14	Joback Method
dvisc	0.0000431	Paxs	761.18	Joback Method

## Sources

<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=U349367&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349367&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>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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