

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

**Inchi:** InChI=1S/C18H34O4/c1-13(11-17(3,4)5)21-15(19)9-10-16(20)22-14(2)12-18(6,7)8/h13-14  
**InchiKey:** XFBKCIXOSZQMAZ-UHFFFAOYSA-N  
**Formula:** C18H34O4  
**SMILES:** CC(CC(C)(C)C)OC(=O)CCC(=O)OC(C)CC(C)(C)C  
**Mol. weight [g/mol]:** 314.46

## Physical Properties

Property code	Value	Unit	Source
gf	-366.36	kJ/mol	Joback Method
hf	-932.51	kJ/mol	Joback Method
hfus	26.08	kJ/mol	Joback Method
hvap	70.61	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.502		Crippen Method
mvol	279.360	ml/mol	McGowan Method
pc	1275.51	kPa	Joback Method
rinpol	1792.00		NIST Webbook
rinpol	1792.00		NIST Webbook
tb	756.48	K	Joback Method
tc	948.35	K	Joback Method
tf	411.78	K	Joback Method
vc	1.058	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	853.62	J/mol×K	756.48	Joback Method
cpg	871.84	J/mol×K	788.46	Joback Method
cpg	888.96	J/mol×K	820.44	Joback Method
cpg	905.05	J/mol×K	852.42	Joback Method
cpg	920.13	J/mol×K	884.39	Joback Method
cpg	934.27	J/mol×K	916.37	Joback Method
cpg	947.48	J/mol×K	948.35	Joback Method
dvisc	0.0015453	Paxs	411.78	Joback Method

dvisc	0.0005795	Paxs	469.23	Joback Method
dvisc	0.0002692	Paxs	526.68	Joback Method
dvisc	0.0001454	Paxs	584.13	Joback Method
dvisc	0.0000877	Paxs	641.58	Joback Method
dvisc	0.0000575	Paxs	699.03	Joback Method
dvisc	0.0000402	Paxs	756.48	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U381728&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381728&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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