

# Succinic acid, cyclohexylmethyl 2,4-dimethylpent-3-yl ester

**Inchi:** InChI=1S/C18H32O4/c1-13(2)18(14(3)4)22-17(20)11-10-16(19)21-12-15-8-6-5-7-9-15/h1-18  
**InchiKey:** ZXMKDVVWAIGNLN-UHFFFAOYSA-N  
**Formula:** C18H32O4  
**SMILES:** CC(C)C(OC(=O)CCC(=O)OCC1CCCCC1)C(C)C  
**Mol. weight [g/mol]:** 312.44

## Physical Properties

Property code	Value	Unit	Source
gf	-350.03	kJ/mol	Joback Method
hf	-865.97	kJ/mol	Joback Method
hfus	29.22	kJ/mol	Joback Method
hvap	73.24	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	4.114		Crippen Method
mvol	268.500	ml/mol	McGowan Method
pc	1451.25	kPa	Joback Method
rinpol	2103.00		NIST Webbook
rinpol	2103.00		NIST Webbook
tb	782.05	K	Joback Method
tc	983.98	K	Joback Method
tf	399.32	K	Joback Method
vc	1.006	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	847.43	J/molxK	782.05	Joback Method
cpg	866.76	J/molxK	815.70	Joback Method
cpg	884.76	J/molxK	849.36	Joback Method
cpg	901.47	J/molxK	883.01	Joback Method
cpg	916.89	J/molxK	916.67	Joback Method
cpg	931.05	J/molxK	950.32	Joback Method
cpg	943.97	J/molxK	983.98	Joback Method
dvisc	0.0022010	Paxs	399.32	Joback Method

dvisc	0.0007875	Paxs	463.11	Joback Method
dvisc	0.0003614	Paxs	526.90	Joback Method
dvisc	0.0001962	Paxs	590.68	Joback Method
dvisc	0.0001200	Paxs	654.47	Joback Method
dvisc	0.0000801	Paxs	718.26	Joback Method
dvisc	0.0000571	Paxs	782.05	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=U390508&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390508&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>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</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>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

Latest version available from:

<https://www.chemeo.com/cid/81-815-7/Succinic-acid-cyclohexylmethyl-2-4-dimethylpent-3-yl-ester.pdf>

Generated by Cheméo on 2024-05-06 20:59:49.748401512 +0000 UTC m=+17318438.668978824.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.