

# Succinic acid, 2-methylpent-3-yl cis-hex-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C16H28O4/c1-5-7-8-9-12-19-15(17)10-11-16(18)20-14(6-2)13(3)4/h8-9,13-14H
<b>InchiKey:</b>	INVDPNNBCFBNJK-HJWRWDBZSA-N
<b>Formula:</b>	C16H28O4
<b>SMILES:</b>	CCCC=CCOC(=O)CCC(=O)OC(CC)C(C)C
<b>Mol. weight [g/mol]:</b>	284.39

## Physical Properties

Property code	Value	Unit	Source
gf	-308.66	kJ/mol	Joback Method
hf	-756.51	kJ/mol	Joback Method
hfus	35.93	kJ/mol	Joback Method
hvap	68.70	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.644		Crippen Method
mcvol	246.880	ml/mol	McGowan Method
pc	1486.14	kPa	Joback Method
rinpol	1845.00		NIST Webbook
rinpol	1845.00		NIST Webbook
tb	721.34	K	Joback Method
tc	906.29	K	Joback Method
tf	379.32	K	Joback Method
vc	0.948	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.40	J/molxK	721.34	Joback Method
cpg	727.88	J/molxK	752.17	Joback Method
cpg	743.49	J/molxK	782.99	Joback Method
cpg	758.25	J/molxK	813.82	Joback Method
cpg	772.18	J/molxK	844.64	Joback Method
cpg	785.29	J/molxK	875.47	Joback Method
cpg	797.61	J/molxK	906.29	Joback Method
dvisc	0.0017733	Paxs	379.32	Joback Method

dvisc	0.0007229	Paxs	436.32	Joback Method
dvisc	0.0003626	Paxs	493.33	Joback Method
dvisc	0.0002098	Paxs	550.33	Joback Method
dvisc	0.0001345	Paxs	607.33	Joback Method
dvisc	0.0000931	Paxs	664.34	Joback Method
dvisc	0.0000683	Paxs	721.34	Joback Method

## Sources

<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=U391298&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391298&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvap:</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>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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