

# Succinic acid, di(cis-hex-3-enyl) ester

<b>Inchi:</b>	InChI=1S/C16H26O4/c1-3-5-7-9-13-19-15(17)11-12-16(18)20-14-10-8-6-4-2/h5-8H,3-4,9
<b>InchiKey:</b>	MPKJFHUGBKINTM-SFECMWDFSA-N
<b>Formula:</b>	C16H26O4
<b>SMILES:</b>	CCC=CCCOC(=O)CCC(=O)OCCC=CCC
<b>Mol. weight [g/mol]:</b>	282.38

## Physical Properties

Property code	Value	Unit	Source
gf	-223.56	kJ/mol	Joback Method
hf	-628.73	kJ/mol	Joback Method
hfus	43.17	kJ/mol	Joback Method
hvap	69.44	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.566		Crippen Method
mvol	242.580	ml/mol	McGowan Method
pc	1528.27	kPa	Joback Method
rinpol	1946.00		NIST Webbook
tb	726.38	K	Joback Method
tc	911.77	K	Joback Method
tf	404.24	K	Joback Method
vc	0.940	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.97	J/molxK	726.38	Joback Method
cpg	756.90	J/molxK	880.87	Joback Method
cpg	744.43	J/molxK	849.97	Joback Method
cpg	731.22	J/molxK	819.07	Joback Method
cpg	717.26	J/molxK	788.18	Joback Method
cpg	702.52	J/molxK	757.28	Joback Method
cpg	768.68	J/molxK	911.77	Joback Method
dvisc	0.0000692	Paxs	726.38	Joback Method
dvisc	0.0000911	Paxs	672.69	Joback Method

dvisc	0.0001259	Paxs	619.00	Joback Method
dvisc	0.0001849	Paxs	565.31	Joback Method
dvisc	0.0002944	Paxs	511.62	Joback Method
dvisc	0.0005229	Paxs	457.93	Joback Method
dvisc	0.0010816	Paxs	404.24	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U353422&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353422&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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