

# Succinic acid, cyclohexylmethyl cis-pent-2-en-1-yl ester

Inchi:	InChI=1S/C16H26O4/c1-2-3-7-12-19-15(17)10-11-16(18)20-13-14-8-5-4-6-9-14/h3,7,14H
InchiKey:	RYJSVUVUISMZFG-CLTKARDFSA-N
Formula:	C16H26O4
SMILES:	CCC=CCOC(=O)CCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	282.38

## Physical Properties

Property code	Value	Unit	Source
gf	-279.33	kJ/mol	Joback Method
hf	-691.63	kJ/mol	Joback Method
hfus	34.81	kJ/mol	Joback Method
hvap	69.91	kJ/mol	Joback Method
log10ws	-3.75		Crippen Method
logp	3.399		Crippen Method
mvol	236.020	ml/mol	McGowan Method
pc	1728.90	kPa	Joback Method
rinpol	2054.00		NIST Webbook
rinpol	2054.00		NIST Webbook
tb	741.77	K	Joback Method
tc	944.06	K	Joback Method
tf	416.70	K	Joback Method
vc	0.892	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	705.23	J/molxK	741.77	Joback Method
cpg	783.46	J/molxK	910.34	Joback Method
cpg	769.98	J/molxK	876.63	Joback Method
cpg	755.45	J/molxK	842.91	Joback Method
cpg	739.83	J/molxK	809.20	Joback Method
cpg	723.10	J/molxK	775.48	Joback Method
cpg	795.89	J/molxK	944.06	Joback Method
dvisc	0.0000836	Paxs	741.77	Joback Method

dvisc	0.0001108	Paxs	687.59	Joback Method
dvisc	0.0001541	Paxs	633.41	Joback Method
dvisc	0.0002281	Paxs	579.24	Joback Method
dvisc	0.0003660	Paxs	525.06	Joback Method
dvisc	0.0006547	Paxs	470.88	Joback Method
dvisc	0.0013624	Paxs	416.70	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=U391263&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391263&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>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>m<sub>cvol</sub>:</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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