

# Succinic acid, cyclohexylmethyl 3-phenylprop-2-en-1-yl ester

Inchi:	InChI=1S/C20H26O4/c21-19(23-15-7-12-17-8-3-1-4-9-17)13-14-20(22)24-16-18-10-5-2-6
InchiKey:	SFUHZISATMFKCX-KPKJPENVSA-N
Formula:	C20H26O4
SMILES:	O=C(CCC(=O)OCC1CCCCC1)OCC=Cc1ccccc1
Mol. weight [g/mol]:	330.42

## Physical Properties

Property code	Value	Unit	Source
gf	-133.24	kJ/mol	Joback Method
hf	-537.66	kJ/mol	Joback Method
hfus	39.21	kJ/mol	Joback Method
hvap	81.09	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.147		Crippen Method
mvol	268.620	ml/mol	McGowan Method
pc	1655.15	kPa	Joback Method
rinpol	2709.00		NIST Webbook
rinpol	2709.00		NIST Webbook
tb	859.97	K	Joback Method
tc	1084.33	K	Joback Method
tf	488.20	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	846.80	J/molxK	859.97	Joback Method
cpg	863.50	J/molxK	897.36	Joback Method
cpg	878.77	J/molxK	934.76	Joback Method
cpg	892.67	J/molxK	972.15	Joback Method
cpg	905.24	J/molxK	1009.54	Joback Method
cpg	916.56	J/molxK	1046.94	Joback Method
cpg	926.67	J/molxK	1084.33	Joback Method
dvisc	0.0007360	Paxs	488.20	Joback Method

dvisc	0.0003630	Paxs	550.16	Joback Method
dvisc	0.0002066	Paxs	612.12	Joback Method
dvisc	0.0001304	Paxs	674.09	Joback Method
dvisc	0.0000889	Paxs	736.05	Joback Method
dvisc	0.0000644	Paxs	798.01	Joback Method
dvisc	0.0000488	Paxs	859.97	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391045&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>

## 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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