

# Succinic acid, hept-2-yl (2-methylcyclohex-1-en-1-yl)methyl ester

Inchi:	InChI=1S/C19H32O4/c1-4-5-6-10-16(3)23-19(21)13-12-18(20)22-14-17-11-8-7-9-15(17)2
InchiKey:	SCAYWPZKXOXFEK-UHFFFAOYSA-N
Formula:	C19H32O4
SMILES:	CCCCC(C)OC(=O)CCC(=O)OCC1=C(C)CCCC1
Mol. weight [g/mol]:	324.45

## Physical Properties

Property code	Value	Unit	Source
gf	-318.32	kJ/mol	Joback Method
hf	-820.87	kJ/mol	Joback Method
hfus	38.23	kJ/mol	Joback Method
hvap	78.17	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	4.712		Crippen Method
mvol	278.290	ml/mol	McGowan Method
pc	1373.78	kPa	Joback Method
rinpol	2301.00		NIST Webbook
rinpol	2301.00		NIST Webbook
tb	819.60	K	Joback Method
tc	1019.44	K	Joback Method
tf	470.63	K	Joback Method
vc	1.062	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.94	J/molxK	819.60	Joback Method
cpg	892.55	J/molxK	852.91	Joback Method
cpg	908.95	J/molxK	886.21	Joback Method
cpg	924.17	J/molxK	919.52	Joback Method
cpg	938.22	J/molxK	952.83	Joback Method
cpg	951.13	J/molxK	986.13	Joback Method
cpg	962.90	J/molxK	1019.44	Joback Method
dvisc	0.0007869	Paxs	470.63	Joback Method

dvisc	0.0003860	Paxs	528.79	Joback Method
dvisc	0.0002181	Paxs	586.95	Joback Method
dvisc	0.0001366	Paxs	645.12	Joback Method
dvisc	0.0000924	Paxs	703.28	Joback Method
dvisc	0.0000664	Paxs	761.44	Joback Method
dvisc	0.0000499	Paxs	819.60	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=U391417&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391417&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>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>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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