

# Succinic acid, cyclohexylmethyl 4-methylpent-2-yl ester

<b>Inchi:</b>	InChI=1S/C17H30O4/c1-13(2)11-14(3)21-17(19)10-9-16(18)20-12-15-7-5-4-6-8-15/h13-1
<b>InchiKey:</b>	IRUGPHMHOIXDDH-UHFFFAOYSA-N
<b>Formula:</b>	C17H30O4
<b>SMILES:</b>	CC(C)CC(C)OC(=O)CCC(=O)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	298.42

## Physical Properties

Property code	Value	Unit	Source
gf	-356.01	kJ/mol	Joback Method
hf	-840.05	kJ/mol	Joback Method
hfus	30.15	kJ/mol	Joback Method
hvap	71.40	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.868		Crippen Method
mcvol	254.410	ml/mol	McGowan Method
pc	1553.67	kPa	Joback Method
rinpol	1992.00		NIST Webbook
rinpol	1992.00		NIST Webbook
tb	759.61	K	Joback Method
tc	960.07	K	Joback Method
tf	403.05	K	Joback Method
vc	0.957	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	787.97	J/mol×K	759.61	Joback Method
cpg	806.97	J/mol×K	793.02	Joback Method
cpg	824.73	J/mol×K	826.43	Joback Method
cpg	841.26	J/mol×K	859.84	Joback Method
cpg	856.57	J/mol×K	893.25	Joback Method
cpg	870.69	J/mol×K	926.66	Joback Method
cpg	883.63	J/mol×K	960.07	Joback Method
dvisc	0.0019728	Paxs	403.05	Joback Method

dvisc	0.0007958	Paxs	462.48	Joback Method
dvisc	0.0003948	Paxs	521.90	Joback Method
dvisc	0.0002260	Paxs	581.33	Joback Method
dvisc	0.0001435	Paxs	640.76	Joback Method
dvisc	0.0000984	Paxs	700.18	Joback Method
dvisc	0.0000716	Paxs	759.61	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=U390430&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390430&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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