

# Succinic acid, cyclohexylmethyl adamant-2-yl ester

Inchi:	InChI=1S/C21H32O4/c22-19(24-13-14-4-2-1-3-5-14)6-7-20(23)25-21-17-9-15-8-16(11-17)
InchiKey:	FXYYPDGIDRCHAR-UHFFFAOYSA-N
Formula:	C21H32O4
SMILES:	O=C(CCC(=O)OC1C2CC3CC(C2)CC1C3)OCC1CCCCC1
Mol. weight [g/mol]:	348.48

## Physical Properties

Property code	Value	Unit	Source
gf	-162.72	kJ/mol	Joback Method
hf	-740.49	kJ/mol	Joback Method
hfus	42.00	kJ/mol	Joback Method
hvap	80.37	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.258		Crippen Method
mcvol	278.190	ml/mol	McGowan Method
pc	1493.04	kPa	Joback Method
rinpol	2806.00		NIST Webbook
rinpol	2806.00		NIST Webbook
tb	867.16	K	Joback Method
tc	1088.91	K	Joback Method
tf	519.95	K	Joback Method
vc	1.054	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	990.31	J/molxK	867.16	Joback Method
cpg	1078.76	J/molxK	1051.95	Joback Method
cpg	1063.63	J/molxK	1014.99	Joback Method
cpg	1047.32	J/molxK	978.03	Joback Method
cpg	1029.73	J/molxK	941.08	Joback Method
cpg	1010.76	J/molxK	904.12	Joback Method
cpg	1092.81	J/molxK	1088.91	Joback Method
dvisc	0.0017118	Paxs	867.16	Joback Method

dvisc	0.0019084	Paxs	809.29	Joback Method
dvisc	0.0021637	Paxs	751.42	Joback Method
dvisc	0.0025050	Paxs	693.56	Joback Method
dvisc	0.0029785	Paxs	635.69	Joback Method
dvisc	0.0036665	Paxs	577.82	Joback Method
dvisc	0.0047271	Paxs	519.95	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391345&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391345&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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