

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

<b>Inchi:</b>	InChI=1S/C22H36O4/c1-3-5-7-8-9-10-11-12-13-14-16-20-26-22(24)18-17-21(23)25-19-1
<b>InchiKey:</b>	CRPRDQVMZUPBGV-UUASQNMZSA-N
<b>Formula:</b>	C22H36O4
<b>SMILES:</b>	CCC=CCOC(=O)CCC(=O)OCC#CCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	364.52

## Physical Properties

Property code	Value	Unit	Source
gf	-50.46	kJ/mol	Joback Method
hf	-597.49	kJ/mol	Joback Method
hfus	61.63	kJ/mol	Joback Method
hvap	84.99	kJ/mol	Joback Method
log10ws	-6.40		Crippen Method
logp	5.353		Crippen Method
mcvol	322.820	ml/mol	McGowan Method
pc	1092.10	kPa	Joback Method
rinsol	2628.00		NIST Webbook
tb	868.50	K	Joback Method
tc	1066.59	K	Joback Method
tf	583.04	K	Joback Method
vc	1.258	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1014.31	J/mol×K	868.50	Joback Method
cpg	1031.82	J/mol×K	901.52	Joback Method
cpg	1048.23	J/mol×K	934.53	Joback Method
cpg	1063.58	J/mol×K	967.55	Joback Method
cpg	1077.90	J/mol×K	1000.56	Joback Method
cpg	1091.22	J/mol×K	1033.58	Joback Method
cpg	1103.58	J/mol×K	1066.59	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=U391272&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391272&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccol:</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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