

# Succinic acid, docosyl hexyl ester

**Inchi:** InChI=1S/C32H62O4/c1-3-5-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-30-  
**InchiKey:** HHEHWOFGIISUKS-UHFFFAOYSA-N  
**Formula:** C32H62O4  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCCCCC  
**Mol. weight [g/mol]:** 510.83

## Physical Properties

Property code	Value	Unit	Source
gf	-249.28	kJ/mol	Joback Method
hf	-1193.41	kJ/mol	Joback Method
hfus	84.21	kJ/mol	Joback Method
hvap	105.14	kJ/mol	Joback Method
log10ws	-10.94		Crippen Method
logp	10.255		Crippen Method
mvol	476.620	ml/mol	McGowan Method
pc	567.43	kPa	Joback Method
rinpol	3548.00		NIST Webbook
tb	1084.14	K	Joback Method
tc	1385.01	K	Joback Method
tf	594.72	K	Joback Method
vc	1.875	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1736.78	J/molxK	1084.14	Joback Method
cpg	1762.91	J/molxK	1134.29	Joback Method
cpg	1785.84	J/molxK	1184.43	Joback Method
cpg	1805.77	J/molxK	1234.58	Joback Method
cpg	1822.87	J/molxK	1284.72	Joback Method
cpg	1837.33	J/molxK	1334.87	Joback Method
cpg	1849.33	J/molxK	1385.01	Joback Method
dvisc	0.0001803	Paxs	594.72	Joback Method
dvisc	0.0000791	Paxs	676.29	Joback Method

dvisc	0.0000415	Paxs	757.86	Joback Method
dvisc	0.0000246	Paxs	839.43	Joback Method
dvisc	0.0000161	Paxs	921.00	Joback Method
dvisc	0.0000112	Paxs	1002.57	Joback Method
dvisc	0.0000083	Paxs	1084.14	Joback Method

## Sources

<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=U349577&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349577&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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