

# Succinic acid, (5-ethyl-1,3-dioxan-5-yl)methyl octyl ester

<b>Inchi:</b>	InChI=1S/C19H34O6/c1-3-5-6-7-8-9-12-24-17(20)10-11-18(21)25-15-19(4-2)13-22-16-23
<b>InchiKey:</b>	UUWYYYYZWDPYOAX-UHFFFAOYSA-N
<b>Formula:</b>	C19H34O6
<b>SMILES:</b>	CCCCCCCCOC(=O)CCC(=O)OCC1(CC)COCOC1
<b>Mol. weight [g/mol]:</b>	358.47

## Physical Properties

Property code	Value	Unit	Source
gf	-512.02	kJ/mol	Joback Method
hf	-1119.53	kJ/mol	Joback Method
hfus	52.04	kJ/mol	Joback Method
hvap	84.50	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.614		Crippen Method
mcvol	294.330	ml/mol	McGowan Method
pc	1353.63	kPa	Joback Method
rinsol	2485.00		NIST Webbook
tb	860.39	K	Joback Method
tc	1062.32	K	Joback Method
tf	532.63	K	Joback Method
vc	1.121	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	972.03	J/mol×K	860.39	Joback Method
cpg	990.93	J/mol×K	894.04	Joback Method
cpg	1009.09	J/mol×K	927.70	Joback Method
cpg	1026.61	J/mol×K	961.35	Joback Method
cpg	1043.57	J/mol×K	995.01	Joback Method
cpg	1060.05	J/mol×K	1028.66	Joback Method
cpg	1076.14	J/mol×K	1062.32	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382210&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382210&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>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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