

# Succinic acid, dodecyl 3-methylbut-3-enyl ester

<b>Inchi:</b>	InChI=1S/C21H38O4/c1-4-5-6-7-8-9-10-11-12-13-17-24-20(22)14-15-21(23)25-18-16-19
<b>InchiKey:</b>	JBYGSDAHPGMHMJ-UHFFFAOYSA-N
<b>Formula:</b>	C21H38O4
<b>SMILES:</b>	C=C(C)CCOC(=O)CCC(=O)OCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	354.52

## Physical Properties

Property code	Value	Unit	Source
gf	-262.61	kJ/mol	Joback Method
hf	-850.73	kJ/mol	Joback Method
hfus	53.13	kJ/mol	Joback Method
hvap	80.06	kJ/mol	Joback Method
log10ws	-6.19		Crippen Method
logp	5.740		Crippen Method
mvol	317.330	ml/mol	McGowan Method
pc	1043.95	kPa	Joback Method
rinpol	2416.00		NIST Webbook
rinpol	2416.00		NIST Webbook
tb	829.02	K	Joback Method
tc	1016.77	K	Joback Method
tf	455.03	K	Joback Method
vc	1.242	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1002.41	J/molxK	829.02	Joback Method
cpg	1020.59	J/molxK	860.31	Joback Method
cpg	1037.70	J/molxK	891.60	Joback Method
cpg	1053.75	J/molxK	922.89	Joback Method
cpg	1068.79	J/molxK	954.19	Joback Method
cpg	1082.82	J/molxK	985.48	Joback Method
cpg	1095.87	J/molxK	1016.77	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=U353449&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353449&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.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>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>h vap:</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>r in pol:</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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