

# Succinic acid, 2,4-dimethylpent-3-yl dodecyl ester

Inchi:	InChI=1S/C23H44O4/c1-6-7-8-9-10-11-12-13-14-15-18-26-21(24)16-17-22(25)27-23(19)
InchiKey:	QYMKZRXL SABLAL-UHFFFAOYSA-N
Formula:	C23H44O4
SMILES:	CCCCCCCCCCCCOC(=O)CCC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	384.59

## Physical Properties

Property code	Value	Unit	Source
gf	-332.38	kJ/mol	Joback Method
hf	-1023.49	kJ/mol	Joback Method
hfus	50.33	kJ/mol	Joback Method
hvap	83.94	kJ/mol	Joback Method
log10ws	-6.80		Crippen Method
logp	6.454		Crippen Method
mcvol	349.810	ml/mol	McGowan Method
pc	912.73	kPa	Joback Method
rinpol	2501.00		NIST Webbook
rinpol	2501.00		NIST Webbook
tb	876.90	K	Joback Method
tc	1073.65	K	Joback Method
tf	448.29	K	Joback Method
vc	1.353	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1155.84	J/molxK	876.90	Joback Method
cpg	1175.41	J/molxK	909.69	Joback Method
cpg	1193.66	J/molxK	942.48	Joback Method
cpg	1210.62	J/molxK	975.27	Joback Method
cpg	1226.32	J/molxK	1008.06	Joback Method
cpg	1240.78	J/molxK	1040.85	Joback Method
cpg	1254.03	J/molxK	1073.65	Joback Method
dvisc	0.0009847	Paxs	448.29	Joback Method

dvisc	0.0003551	Paxs	519.73	Joback Method
dvisc	0.0001639	Paxs	591.16	Joback Method
dvisc	0.0000894	Paxs	662.60	Joback Method
dvisc	0.0000548	Paxs	734.03	Joback Method
dvisc	0.0000367	Paxs	805.47	Joback Method
dvisc	0.0000262	Paxs	876.90	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U349364&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349364&amp;Units=SI</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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