

# Succinic acid, dodecyl 2-propylpentyl ester

Inchi:

InChI=1S/C24H46O4/c1-4-7-8-9-10-11-12-13-14-15-20-27-23(25)18-19-24(26)28-21-22(

InchiKey:

OSKLRAXFPRAQDM-UHFFFAOYSA-N

Formula:

C24H46O4

SMILES:

CCCCCCCCCCCCCOC(=O)CCC(=O)OCC(CCC)CCC

Mol. weight [g/mol]:

398.62

## Physical Properties

Property code	Value	Unit	Source
gf	-319.08	kJ/mol	Joback Method
hf	-1033.57	kJ/mol	Joback Method
hfus	59.97	kJ/mol	Joback Method
hvap	86.94	kJ/mol	Joback Method
log10ws	-7.35		Crippen Method
logp	6.990		Crippen Method
mcvol	363.900	ml/mol	McGowan Method
pc	853.96	kPa	Joback Method
rinpol	2650.00		NIST Webbook
rinpol	2650.00		NIST Webbook
tb	900.66	K	Joback Method
tc	1103.57	K	Joback Method
tf	489.56	K	Joback Method
vc	1.421	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1218.00	J/molxK	900.66	Joback Method
cpg	1238.11	J/molxK	934.48	Joback Method
cpg	1256.81	J/molxK	968.30	Joback Method
cpg	1274.13	J/molxK	1002.12	Joback Method
cpg	1290.12	J/molxK	1035.94	Joback Method
cpg	1304.80	J/molxK	1069.75	Joback Method
cpg	1318.20	J/molxK	1103.57	Joback Method
dvisc	0.0006076	Paxs	489.56	Joback Method

dvisc	0.0002626	Paxs	558.08	Joback Method
dvisc	0.0001364	Paxs	626.59	Joback Method
dvisc	0.0000806	Paxs	695.11	Joback Method
dvisc	0.0000523	Paxs	763.63	Joback Method
dvisc	0.0000365	Paxs	832.14	Joback Method
dvisc	0.0000269	Paxs	900.66	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=U381346&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381346&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>

## 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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