

# Sebacic acid, dodecyl tetrahydrofurfuryl ester

<b>Inchi:</b>	InChI=1S/C27H50O5/c1-2-3-4-5-6-7-8-11-14-17-22-31-26(28)20-15-12-9-10-13-16-21-27
<b>InchiKey:</b>	KPNZWADOJDRTKF-UHFFFAOYSA-N
<b>Formula:</b>	C27H50O5
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)CCCCCCCCC(=O)OCC1CCCO1
<b>Mol. weight [g/mol]:</b>	454.68

## Physical Properties

Property code	Value	Unit	Source
gf	-340.95	kJ/mol	Joback Method
hf	-1161.73	kJ/mol	Joback Method
hfus	73.17	kJ/mol	Joback Method
hvap	98.77	kJ/mol	Joback Method
log10ws	-7.94		Crippen Method
logp	7.293		Crippen Method
mvol	401.180	ml/mol	McGowan Method
pc	794.84	kPa	Joback Method
rinpol	3318.00		NIST Webbook
rinpol	3318.00		NIST Webbook
tb	1011.97	K	Joback Method
tc	1246.67	K	Joback Method
tf	575.84	K	Joback Method
vc	1.558	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1436.71	J/molxK	1011.97	Joback Method
cpg	1456.88	J/molxK	1051.09	Joback Method
cpg	1475.14	J/molxK	1090.20	Joback Method
cpg	1491.55	J/molxK	1129.32	Joback Method
cpg	1506.20	J/molxK	1168.44	Joback Method
cpg	1519.16	J/molxK	1207.56	Joback Method
cpg	1530.51	J/molxK	1246.67	Joback Method
dvisc	0.0003794	Paxs	575.84	Joback Method

dvisc	0.0001837	Paxs	648.53	Joback Method
dvisc	0.0001029	Paxs	721.22	Joback Method
dvisc	0.0000641	Paxs	793.90	Joback Method
dvisc	0.0000432	Paxs	866.59	Joback Method
dvisc	0.0000310	Paxs	939.28	Joback Method
dvisc	0.0000233	Paxs	1011.97	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=U355728&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355728&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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