

# Adipic acid, pentadecyl pent-4-en-2-yl ester

**Inchi:** InChI=1S/C26H48O4/c1-4-6-7-8-9-10-11-12-13-14-15-16-19-23-29-25(27)21-17-18-22-2  
**InchiKey:** ZDTBGLOFVDYW HH-UHFFFAOYSA-N  
**Formula:** C26H48O4  
**SMILES:** C=CCC(C)OC(=O)CCCC(=O)OCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 424.66

## Physical Properties

Property code	Value	Unit	Source
gf	-214.40	kJ/mol	Joback Method
hf	-949.42	kJ/mol	Joback Method
hfus	63.87	kJ/mol	Joback Method
hvap	90.72	kJ/mol	Joback Method
log10ws	-8.40		Crippen Method
logp	7.689		Crippen Method
mvol	387.780	ml/mol	McGowan Method
pc	783.75	kPa	Joback Method
rinpol	2847.00		NIST Webbook
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tb	943.10	K	Joback Method
tc	1158.91	K	Joback Method
tf	510.34	K	Joback Method
vc	1.514	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1315.93	J/molxK	943.10	Joback Method
cpg	1403.66	J/molxK	1122.94	Joback Method
cpg	1389.04	J/molxK	1086.97	Joback Method
cpg	1373.01	J/molxK	1051.01	Joback Method
cpg	1355.52	J/molxK	1015.04	Joback Method
cpg	1336.51	J/molxK	979.07	Joback Method
cpg	1416.91	J/molxK	1158.91	Joback Method
dvisc	0.0000213	Paxs	943.10	Joback Method

dvisc	0.0000288	Paxs	870.97	Joback Method
dvisc	0.0000413	Paxs	798.85	Joback Method
dvisc	0.0000635	Paxs	726.72	Joback Method
dvisc	0.0001075	Paxs	654.59	Joback Method
dvisc	0.0002072	Paxs	582.47	Joback Method
dvisc	0.0004805	Paxs	510.34	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354130&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354130&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>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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