

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

**Inchi:** InChI=1S/C22H40O4/c1-4-6-7-8-9-10-11-12-15-19-25-21(23)17-13-14-18-22(24)26-20(3)  
**InchiKey:** ZBTQYMQDXDFQDB-UHFFFAOYSA-N  
**Formula:** C22H40O4  
**SMILES:** C=CCC(C)OC(=O)CCCCC(=O)OCCCCCCCCCCC  
**Mol. weight [g/mol]:** 368.55

## Physical Properties

Property code	Value	Unit	Source
gf	-248.08	kJ/mol	Joback Method
hf	-866.86	kJ/mol	Joback Method
hfus	53.51	kJ/mol	Joback Method
hvap	81.82	kJ/mol	Joback Method
log10ws	-6.72		Crippen Method
logp	6.129		Crippen Method
mcvol	331.420	ml/mol	McGowan Method
pc	983.93	kPa	Joback Method
rinpola	2447.00		NIST Webbook
tb	851.58	K	Joback Method
tc	1043.11	K	Joback Method
tf	465.26	K	Joback Method
vc	1.290	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1064.56	J/molxK	851.58	Joback Method
cpg	1146.23	J/molxK	1011.19	Joback Method
cpg	1132.10	J/molxK	979.27	Joback Method
cpg	1116.90	J/molxK	947.35	Joback Method
cpg	1100.60	J/molxK	915.42	Joback Method
cpg	1083.16	J/molxK	883.50	Joback Method
cpg	1159.30	J/molxK	1043.11	Joback Method
dvisc	0.0000390	Paxs	851.58	Joback Method
dvisc	0.0000525	Paxs	787.19	Joback Method

dvisc	0.0000745	Paxs	722.81	Joback Method
dvisc	0.0001132	Paxs	658.42	Joback Method
dvisc	0.0001883	Paxs	594.03	Joback Method
dvisc	0.0003544	Paxs	529.65	Joback Method
dvisc	0.0007948	Paxs	465.26	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=U354127&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354127&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

Latest version available from:

<https://www.chemeo.com/cid/17-383-8/Adipic-acid-pent-4-en-2-yl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-24 05:37:52.212946343 +0000 UTC m=+16226321.133523654.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.