

# Adipic acid, 2-chloropropyl pentadecyl ester

**Inchi:** InChI=1S/C24H45ClO4/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-20-28-23(26)18-15-16-19-24  
**InchiKey:** SNFWTKACFXBQLM-UHFFFAOYSA-N  
**Formula:** C24H45ClO4  
**SMILES:** CCCCCCCCCCCCCCOC(=O)CCCCC(=O)OCC(C)Cl  
**Mol. weight [g/mol]:** 433.06

## Physical Properties

Property code	Value	Unit	Source
gf	-331.01	kJ/mol	Joback Method
hf	-1049.31	kJ/mol	Joback Method
hfus	64.16	kJ/mol	Joback Method
hvap	91.33	kJ/mol	Joback Method
log10ws	-7.86		Crippen Method
logp	7.352		Crippen Method
mvol	376.140	ml/mol	McGowan Method
pc	835.79	kPa	Joback Method
rinpol	2930.00		NIST Webbook
rinpol	2930.00		NIST Webbook
tb	938.09	K	Joback Method
tc	1150.89	K	Joback Method
tf	519.48	K	Joback Method
vc	1.470	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1248.90	J/molxK	938.09	Joback Method
cpg	1268.05	J/molxK	973.56	Joback Method
cpg	1285.71	J/molxK	1009.02	Joback Method
cpg	1301.93	J/molxK	1044.49	Joback Method
cpg	1316.73	J/molxK	1079.96	Joback Method
cpg	1330.17	J/molxK	1115.42	Joback Method
cpg	1342.28	J/molxK	1150.89	Joback Method
dvisc	0.0004616	Paxs	519.48	Joback Method

dvisc	0.0002071	Paxs	589.25	Joback Method
dvisc	0.0001101	Paxs	659.02	Joback Method
dvisc	0.0000661	Paxs	728.79	Joback Method
dvisc	0.0000434	Paxs	798.55	Joback Method
dvisc	0.0000304	Paxs	868.32	Joback Method
dvisc	0.0000225	Paxs	938.09	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=U353551&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353551&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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