

# Adipic acid, 8-chlorooctyl hexadecyl ester

<b>Inchi:</b>	InChI=1S/C30H57ClO4/c1-2-3-4-5-6-7-8-9-10-11-12-14-17-22-27-34-29(32)24-19-20-25
<b>InchiKey:</b>	MGYTWPAMDKJXLU-UHFFFAOYSA-N
<b>Formula:</b>	C30H57ClO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	517.22

## Physical Properties

Property code	Value	Unit	Source
gf	-278.05	kJ/mol	Joback Method
hf	-1167.87	kJ/mol	Joback Method
hfus	83.23	kJ/mol	Joback Method
hvap	105.07	kJ/mol	Joback Method
log10ws	-10.26		Crippen Method
logp	9.694		Crippen Method
mcvol	460.680	ml/mol	McGowan Method
pc	611.78	kPa	Joback Method
tb	1075.81	K	Joback Method
tc	1360.82	K	Joback Method
tf	602.10	K	Joback Method
vc	1.812	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1633.60	J/molxK	1075.81	Joback Method
cpg	1656.93	J/molxK	1123.31	Joback Method
cpg	1677.54	J/molxK	1170.81	Joback Method
cpg	1695.56	J/molxK	1218.31	Joback Method
cpg	1711.15	J/molxK	1265.81	Joback Method
cpg	1724.45	J/molxK	1313.32	Joback Method
cpg	1735.62	J/molxK	1360.82	Joback Method
dvisc	0.0001811	Paxs	602.10	Joback Method
dvisc	0.0000831	Paxs	681.05	Joback Method
dvisc	0.0000449	Paxs	760.00	Joback Method

dvisc	0.0000272	Paxs	838.95	Joback Method
dvisc	0.0000180	Paxs	917.91	Joback Method
dvisc	0.0000127	Paxs	996.86	Joback Method
dvisc	0.0000094	Paxs	1075.81	Joback Method

## Sources

<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=U349771&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349771&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>

## 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>hvac:</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>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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