

# Adipic acid, 10-chlorodecyl heptyl ester

<b>Inchi:</b>	InChI=1S/C23H43ClO4/c1-2-3-4-10-15-20-27-22(25)17-12-13-18-23(26)28-21-16-11-8-6
<b>InchiKey:</b>	FXYPFSHBWFKVOG-UHFFFAOYSA-N
<b>Formula:</b>	C23H43ClO4
<b>SMILES:</b>	CCCCCCCOC(=O)CCCCC(=O)OCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	419.04

## Physical Properties

Property code	Value	Unit	Source
gf	-336.99	kJ/mol	Joback Method
hf	-1023.39	kJ/mol	Joback Method
hfus	65.10	kJ/mol	Joback Method
hvap	89.49	kJ/mol	Joback Method
log10ws	-7.33		Crippen Method
logp	6.963		Crippen Method
mvol	362.050	ml/mol	McGowan Method
pc	880.00	kPa	Joback Method
rinpol	2942.00		NIST Webbook
rinpol	2942.00		NIST Webbook
tb	915.65	K	Joback Method
tc	1122.22	K	Joback Method
tf	523.21	K	Joback Method
vc	1.421	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1185.72	J/molxK	915.65	Joback Method
cpg	1204.47	J/molxK	950.08	Joback Method
cpg	1221.85	J/molxK	984.51	Joback Method
cpg	1237.89	J/molxK	1018.94	Joback Method
cpg	1252.63	J/molxK	1053.37	Joback Method
cpg	1266.11	J/molxK	1087.80	Joback Method
cpg	1278.36	J/molxK	1122.22	Joback Method
dvisc	0.0004614	Paxs	523.21	Joback Method

dvisc	0.0002249	Paxs	588.62	Joback Method
dvisc	0.0001265	Paxs	654.02	Joback Method
dvisc	0.0000791	Paxs	719.43	Joback Method
dvisc	0.0000534	Paxs	784.84	Joback Method
dvisc	0.0000383	Paxs	850.24	Joback Method
dvisc	0.0000289	Paxs	915.65	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=U353491&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353491&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>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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