

# Malonic acid, 2-chloropropyl pentadecyl ester

<b>Inchi:</b>	InChI=1S/C21H39ClO4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-25-20(23)17-21(24)26-18
<b>InchiKey:</b>	DQWVDNYIQVEEMR-UHFFFAOYSA-N
<b>Formula:</b>	C21H39ClO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	390.99

## Physical Properties

Property code	Value	Unit	Source
gf	-356.27	kJ/mol	Joback Method
hf	-987.39	kJ/mol	Joback Method
hfus	56.39	kJ/mol	Joback Method
hvap	84.65	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	6.181		Crippen Method
mcvol	333.870	ml/mol	McGowan Method
pc	994.51	kPa	Joback Method
rinsol	2610.00		NIST Webbook
tb	869.45	K	Joback Method
tc	1064.76	K	Joback Method
tf	485.67	K	Joback Method
vc	1.302	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1062.28	J/molxK	869.45	Joback Method
cpg	1139.64	J/molxK	1032.21	Joback Method
cpg	1126.44	J/molxK	999.66	Joback Method
cpg	1112.13	J/molxK	967.10	Joback Method
cpg	1096.68	J/molxK	934.55	Joback Method
cpg	1080.07	J/molxK	902.00	Joback Method
cpg	1151.76	J/molxK	1064.76	Joback Method
dvisc	0.0000359	Paxs	869.45	Joback Method
dvisc	0.0000482	Paxs	805.49	Joback Method

dvisc	0.0000682	Paxs	741.52	Joback Method
dvisc	0.0001029	Paxs	677.56	Joback Method
dvisc	0.0001692	Paxs	613.60	Joback Method
dvisc	0.0003124	Paxs	549.63	Joback Method
dvisc	0.0006779	Paxs	485.67	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=U349036&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349036&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>

## 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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