

# Malonic acid, 10-chlorodecyl pentyl ester

<b>Inchi:</b>	InChI=1S/C18H33ClO4/c1-2-3-11-14-22-17(20)16-18(21)23-15-12-9-7-5-4-6-8-10-13-19
<b>InchiKey:</b>	LIVKUMQJJABWOO-UHFFFAOYSA-N
<b>Formula:</b>	C18H33ClO4
<b>SMILES:</b>	CCCCCOC(=O)CC(=O)OCCCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	348.90

## Physical Properties

Property code	Value	Unit	Source
gf	-379.09	kJ/mol	Joback Method
hf	-920.19	kJ/mol	Joback Method
hfus	52.15	kJ/mol	Joback Method
hvap	78.36	kJ/mol	Joback Method
log10ws	-5.24		Crippen Method
logp	5.013		Crippen Method
mvol	291.600	ml/mol	McGowan Method
pc	1196.48	kPa	Joback Method
rinpol	2420.00		NIST Webbook
rinpol	2420.00		NIST Webbook
tb	801.25	K	Joback Method
tc	986.02	K	Joback Method
tf	466.86	K	Joback Method
vc	1.141	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.08	J/mol×K	801.25	Joback Method
cpg	897.61	J/mol×K	832.05	Joback Method
cpg	913.18	J/mol×K	862.84	Joback Method
cpg	927.81	J/mol×K	893.64	Joback Method
cpg	941.51	J/mol×K	924.43	Joback Method
cpg	954.29	J/mol×K	955.23	Joback Method
cpg	966.18	J/mol×K	986.02	Joback Method
dvisc	0.0008274	Paxs	466.86	Joback Method

dvisc	0.0004253	Paxs	522.59	Joback Method
dvisc	0.0002486	Paxs	578.32	Joback Method
dvisc	0.0001596	Paxs	634.06	Joback Method
dvisc	0.0001101	Paxs	689.79	Joback Method
dvisc	0.0000803	Paxs	745.52	Joback Method
dvisc	0.0000612	Paxs	801.25	Joback Method

## Sources

<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>
<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=U349042&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349042&amp;Units=SI</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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