

# Chloroacetamide, N,N-didecyl-

<b>Inchi:</b>	InChI=1S/C22H44ClNO/c1-3-5-7-9-11-13-15-17-19-24(22(25)21-23)20-18-16-14-12-10-8
<b>InchiKey:</b>	YPGJDQWTBAWREX-UHFFFAOYSA-N
<b>Formula:</b>	C22H44ClNO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCCCC)C(=O)CCl
<b>Mol. weight [g/mol]:</b>	374.04

## Physical Properties

Property code	Value	Unit	Source
gf	104.29	kJ/mol	Joback Method
hf	-558.20	kJ/mol	Joback Method
hfus	61.55	kJ/mol	Joback Method
hvap	77.74	kJ/mol	Joback Method
log10ws	-7.53		Crippen Method
logp	7.335		Crippen Method
mvol	344.630	ml/mol	McGowan Method
pc	914.94	kPa	Joback Method
rinpol	2698.00		NIST Webbook
tb	806.50	K	Joback Method
tc	988.46	K	Joback Method
tf	450.02	K	Joback Method
vc	1.341	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1077.70	J/mol×K	806.50	Joback Method
cpg	1097.85	J/mol×K	836.83	Joback Method
cpg	1116.96	J/mol×K	867.15	Joback Method
cpg	1135.08	J/mol×K	897.48	Joback Method
cpg	1152.26	J/mol×K	927.80	Joback Method
cpg	1168.54	J/mol×K	958.13	Joback Method
cpg	1183.98	J/mol×K	988.46	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308482&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308482&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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