

# Chloroacetamide, N,N-dioctyl-

<b>Inchi:</b>	InChI=1S/C18H36ClNO/c1-3-5-7-9-11-13-15-20(18(21)17-19)16-14-12-10-8-6-4-2/h3-17
<b>InchiKey:</b>	ASYPQLBYSSYEBE-UHFFFAOYSA-N
<b>Formula:</b>	C18H36ClNO
<b>SMILES:</b>	CCCCCCCCN(CCCCCCCC)C(=O)CCl
<b>Mol. weight [g/mol]:</b>	317.94

## Physical Properties

Property code	Value	Unit	Source
gf	70.61	kJ/mol	Joback Method
hf	-475.64	kJ/mol	Joback Method
hfus	51.19	kJ/mol	Joback Method
hvap	68.84	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	5.775		Crippen Method
mvol	288.270	ml/mol	McGowan Method
pc	1171.22	kPa	Joback Method
rinpol	2290.00		NIST Webbook
rinpol	2290.00		NIST Webbook
tb	714.98	K	Joback Method
tc	887.41	K	Joback Method
tf	404.94	K	Joback Method
vc	1.117	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	835.90	J/molxK	714.98	Joback Method
cpg	854.28	J/molxK	743.72	Joback Method
cpg	871.79	J/molxK	772.46	Joback Method
cpg	888.45	J/molxK	801.19	Joback Method
cpg	904.29	J/molxK	829.93	Joback Method
cpg	919.36	J/molxK	858.67	Joback Method
cpg	933.68	J/molxK	887.41	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=U308480&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308480&amp;Units=SI</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>hvpap:</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>rinppl:</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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