

# Dichloroacetamide, N-heptyl-N-octyl-

<b>Inchi:</b>	InChI=1S/C17H33Cl2NO/c1-3-5-7-9-11-13-15-20(17(21)16(18)19)14-12-10-8-6-4-2/h16H
<b>InchiKey:</b>	SOTPHTCBQMPAOA-UHFFFAOYSA-N
<b>Formula:</b>	C17H33Cl2NO
<b>SMILES:</b>	CCCCCCCCN(CCCCCC)C(=O)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	338.36

## Physical Properties

Property code	Value	Unit	Source
gf	47.82	kJ/mol	Joback Method
hf	-476.02	kJ/mol	Joback Method
hfus	49.28	kJ/mol	Joback Method
hvap	70.61	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.950		Crippen Method
mvol	286.420	ml/mol	McGowan Method
pc	1226.84	kPa	Joback Method
rmpol	2187.00		NIST Webbook
rmpol	2187.00		NIST Webbook
tb	729.09	K	Joback Method
tc	907.64	K	Joback Method
tf	408.59	K	Joback Method
vc	1.103	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	812.21	J/mol×K	729.09	Joback Method
cpg	829.52	J/mol×K	758.85	Joback Method
cpg	845.96	J/mol×K	788.61	Joback Method
cpg	861.54	J/mol×K	818.37	Joback Method
cpg	876.32	J/mol×K	848.12	Joback Method
cpg	890.32	J/mol×K	877.88	Joback Method
cpg	903.59	J/mol×K	907.64	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U308636&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308636&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>hvp:</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>rinp:</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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