

# Dichloroacetamide, N,N-diheptyl-

<b>Inchi:</b>	InChI=1S/C16H31Cl2NO/c1-3-5-7-9-11-13-19(16(20)15(17)18)14-12-10-8-6-4-2/h15H,3-
<b>InchiKey:</b>	DTFJMKGUYWLTPF-UHFFFAOYSA-N
<b>Formula:</b>	C16H31Cl2NO
<b>SMILES:</b>	CCCCCCCN(CCCCCC)C(=O)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	324.33

## Physical Properties

Property code	Value	Unit	Source
gf	39.40	kJ/mol	Joback Method
hf	-455.38	kJ/mol	Joback Method
hfus	46.69	kJ/mol	Joback Method
hvap	68.38	kJ/mol	Joback Method
log10ws	-5.78		Crippen Method
logp	5.560		Crippen Method
mcvol	272.330	ml/mol	McGowan Method
pc	1313.70	kPa	Joback Method
rinpol	2086.00		NIST Webbook
tb	706.21	K	Joback Method
tc	884.39	K	Joback Method
tf	397.32	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	755.03	J/mol×K	706.21	Joback Method
cpg	771.97	J/mol×K	735.91	Joback Method
cpg	788.05	J/mol×K	765.60	Joback Method
cpg	803.31	J/mol×K	795.30	Joback Method
cpg	817.78	J/mol×K	825.00	Joback Method
cpg	831.50	J/mol×K	854.69	Joback Method
cpg	844.50	J/mol×K	884.39	Joback Method

# Sources

<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=U308635&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308635&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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

Latest version available from:

<https://www.chemeo.com/cid/23-876-4/Dichloroacetamide-N-N-diheptyl.pdf>

Generated by Cheméo on 2024-04-28 00:08:53.285425763 +0000 UTC m=+16552182.206003090.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.