

# Methoxyacetamide, N,N-diheptyl-

<b>Inchi:</b>	InChI=1S/C17H35NO2/c1-4-6-8-10-12-14-18(17(19)16-20-3)15-13-11-9-7-5-2/h4-16H2,1
<b>InchiKey:</b>	MZERXMLXTBCQGI-UHFFFAOYSA-N
<b>Formula:</b>	C17H35NO2
<b>SMILES:</b>	CCCCCCCN(CCCCCC)C(=O)COC
<b>Mol. weight [g/mol]:</b>	285.47

## Physical Properties

Property code	Value	Unit	Source
gf	-30.88	kJ/mol	Joback Method
hf	-571.48	kJ/mol	Joback Method
hfus	45.59	kJ/mol	Joback Method
hvap	64.64	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	4.402		Crippen Method
mvol	267.810	ml/mol	McGowan Method
pc	1270.06	kPa	Joback Method
rinpol	2037.00		NIST Webbook
rinpol	2037.00		NIST Webbook
tb	677.09	K	Joback Method
tc	844.54	K	Joback Method
tf	385.98	K	Joback Method
vc	1.030	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	773.75	J/molxK	677.09	Joback Method
cpg	792.33	J/molxK	705.00	Joback Method
cpg	810.08	J/molxK	732.91	Joback Method
cpg	827.01	J/molxK	760.81	Joback Method
cpg	843.16	J/molxK	788.72	Joback Method
cpg	858.53	J/molxK	816.63	Joback Method
cpg	873.16	J/molxK	844.54	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308494&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308494&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>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

Latest version available from:

<https://www.chemeo.com/cid/113-468-7/Methoxyacetamide-N-N-diheptyl.pdf>

Generated by Cheméo on 2024-04-29 22:28:15.675884881 +0000 UTC m=+16718944.596462203.

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