

# Methoxyacetamide, N,N-diundecyl-

<b>Inchi:</b>	InChI=1S/C25H51NO2/c1-4-6-8-10-12-14-16-18-20-22-26(25(27)24-28-3)23-21-19-17-15
<b>InchiKey:</b>	DXKSGJWDXHJQF-UHFFFAOYSA-N
<b>Formula:</b>	C25H51NO2
<b>SMILES:</b>	CCCCCCCCCCN(CCCCCCCCCC)C(=O)COC
<b>Mol. weight [g/mol]:</b>	397.68

## Physical Properties

Property code	Value	Unit	Source
gf	36.48	kJ/mol	Joback Method
hf	-736.60	kJ/mol	Joback Method
hfus	66.31	kJ/mol	Joback Method
hvap	82.44	kJ/mol	Joback Method
log10ws	-7.72		Crippen Method
logp	7.523		Crippen Method
mvol	380.530	ml/mol	McGowan Method
pc	782.87	kPa	Joback Method
rinpol	2849.00		NIST Webbook
rinpol	2849.00		NIST Webbook
tb	860.13	K	Joback Method
tc	1054.08	K	Joback Method
tf	476.14	K	Joback Method
vc	1.478	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1266.05	J/mol×K	860.13	Joback Method
cpg	1288.62	J/mol×K	892.46	Joback Method
cpg	1309.90	J/mol×K	924.78	Joback Method
cpg	1329.92	J/mol×K	957.11	Joback Method
cpg	1348.75	J/mol×K	989.43	Joback Method
cpg	1366.43	J/mol×K	1021.76	Joback Method
cpg	1383.02	J/mol×K	1054.08	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=U308499&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308499&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>rlnol:</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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