

# Propanamide, N,N-dioctyl-2-chloro-

<b>Inchi:</b>	InChI=1S/C19H38ClNO/c1-4-6-8-10-12-14-16-21(19(22)18(3)20)17-15-13-11-9-7-5-2/h1
<b>InchiKey:</b>	SFIDWMGWNSNDKS-UHFFFAOYSA-N
<b>Formula:</b>	C19H38ClNO
<b>SMILES:</b>	CCCCCCCCN(CCCCCCCC)C(=O)C(C)Cl
<b>Mol. weight [g/mol]:</b>	331.96

## Physical Properties

Property code	Value	Unit	Source
gf	76.59	kJ/mol	Joback Method
hf	-501.56	kJ/mol	Joback Method
hfus	50.26	kJ/mol	Joback Method
hvap	70.67	kJ/mol	Joback Method
log10ws	-6.39		Crippen Method
logp	6.163		Crippen Method
mvol	302.360	ml/mol	McGowan Method
pc	1103.74	kPa	Joback Method
rinpol	2266.00		NIST Webbook
rinpol	2266.00		NIST Webbook
tb	737.42	K	Joback Method
tc	912.64	K	Joback Method
tf	401.21	K	Joback Method
vc	1.167	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.41	J/mol×K	737.42	Joback Method
cpg	914.37	J/mol×K	766.62	Joback Method
cpg	932.39	J/mol×K	795.83	Joback Method
cpg	949.51	J/mol×K	825.03	Joback Method
cpg	965.78	J/mol×K	854.23	Joback Method
cpg	981.22	J/mol×K	883.44	Joback Method
cpg	995.88	J/mol×K	912.64	Joback Method

# Sources

<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=U308390&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308390&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>

# 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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