

# 3'-chloro,4'-methylvaleroanilide

<b>Inchi:</b>	InChI=1S/C12H16ClNO/c1-3-4-5-12(15)14-10-7-6-9(2)11(13)8-10/h6-8H,3-5H2,1-2H3,(H
<b>InchiKey:</b>	MUDBOJKTKQUTFU-UHFFFAOYSA-N
<b>Formula:</b>	C12H16ClNO
<b>SMILES:</b>	CCCCC(=O)Nc1ccc(C)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	225.72

## Physical Properties

Property code	Value	Unit	Source
gf	91.85	kJ/mol	Joback Method
hf	-152.27	kJ/mol	Joback Method
hfus	30.99	kJ/mol	Joback Method
hvap	63.47	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.777		Crippen Method
mcvol	179.970	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinsol	1932.00		NIST Webbook
tb	652.07	K	Joback Method
tc	865.67	K	Joback Method
tf	408.97	K	Joback Method
vc	0.690	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.95	J/mol×K	652.07	Joback Method
cpg	459.74	J/mol×K	687.67	Joback Method
cpg	472.68	J/mol×K	723.27	Joback Method
cpg	484.81	J/mol×K	758.87	Joback Method
cpg	496.16	J/mol×K	794.47	Joback Method
cpg	506.75	J/mol×K	830.07	Joback Method
cpg	516.63	J/mol×K	865.67	Joback Method

# Sources

<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>
<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=R149161&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R149161&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>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

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