

# Hexanoyl chloride, 3,5,5-trimethyl-

<b>Other names:</b>	3,5,5-Trimethylhexanoyl chloride
<b>Inchi:</b>	InChI=1S/C9H17ClO/c1-7(5-8(10)11)6-9(2,3)4/h7H,5-6H2,1-4H3
<b>InchiKey:</b>	GEKPNPPFAYJZRD-UHFFFAOYSA-N
<b>Formula:</b>	C9H17ClO
<b>SMILES:</b>	CC(CC(=O)Cl)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	176.68
<b>CAS:</b>	36727-29-4

## Physical Properties

Property code	Value	Unit	Source
gf	-115.55	kJ/mol	Joback Method
hf	-371.44	kJ/mol	Joback Method
hfus	13.93	kJ/mol	Joback Method
hvap	45.08	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	3.214		Crippen Method
mcvol	151.480	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
rinpol	1063.00		NIST Webbook
rinpol	1063.00		NIST Webbook
tb	492.95	K	Joback Method
tc	687.99	K	Joback Method
tf	258.46	K	Joback Method
vc	0.578	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.57	J/molxK	492.95	Joback Method
cpg	395.27	J/molxK	655.48	Joback Method
cpg	383.79	J/molxK	622.98	Joback Method
cpg	371.61	J/molxK	590.47	Joback Method
cpg	358.71	J/molxK	557.96	Joback Method
cpg	345.04	J/molxK	525.46	Joback Method

cpg	406.08	J/mol×K	687.99	Joback Method
dvisc	0.0002716	Paxs	492.95	Joback Method
dvisc	0.0003755	Paxs	453.87	Joback Method
dvisc	0.0005517	Paxs	414.79	Joback Method
dvisc	0.0008783	Paxs	375.70	Joback Method
dvisc	0.0015574	Paxs	336.62	Joback Method
dvisc	0.0032103	Paxs	297.54	Joback Method
dvisc	0.0082353	Paxs	258.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C36727294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36727294&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>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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