

# 2-Pentenoyl chloride, 2-methyl-

<b>Other names:</b>	2-methylpent-2-enoyl chloride
<b>Inchi:</b>	InChI=1S/C6H9ClO/c1-3-4-5(2)6(7)8/h4H,3H2,1-2H3/b5-4+
<b>InchiKey:</b>	JTQXJDWMNNIVRS-SNAWJCMRSA-N
<b>Formula:</b>	C6H9ClO
<b>SMILES:</b>	CCC=C(C)C(=O)Cl
<b>Mol. weight [g/mol]:</b>	132.59
<b>CAS:</b>	55764-37-9

## Physical Properties

Property code	Value	Unit	Source
gf	-69.54	kJ/mol	Joback Method
hf	-188.06	kJ/mol	Joback Method
hfus	15.98	kJ/mol	Joback Method
hvap	40.12	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	2.108		Crippen Method
mcvol	104.910	ml/mol	McGowan Method
pc	3415.86	kPa	Joback Method
tb	432.02	K	Joback Method
tc	630.18	K	Joback Method
tf	218.19	K	Joback Method
vc	0.407	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.11	J/mol×K	432.02	Joback Method
cpg	196.64	J/mol×K	465.05	Joback Method
cpg	205.64	J/mol×K	498.07	Joback Method
cpg	214.15	J/mol×K	531.10	Joback Method
cpg	222.19	J/mol×K	564.13	Joback Method
cpg	229.78	J/mol×K	597.16	Joback Method
cpg	236.95	J/mol×K	630.18	Joback Method

# Sources

<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.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>
<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=C55764379&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55764379&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>h vap:</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>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.cheméo.com/cid/67-886-5/2-Pentenoyl-chloride-2-methyl.pdf>

Generated by Cheméo on 2024-04-28 20:40:11.484137642 +0000 UTC m=+16626060.404714971.

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