

# Borneyl chloride

<b>Other names:</b>	Bicyclo[2.2.1]heptane, 2-chloro-1,7,7-trimethyl-, endo-Bornane, 2-chloro-, endo-Turpentine camphor 2-Chlorocamphane Terpene hydrochloride endo-2-Chloro-1,7,7-trimethylbicyclo[2.2.1]heptane Pinene hydrochloride endo-2-chlorobornane
<b>Inchi:</b>	InChI=1S/C10H17Cl/c1-9(2)7-4-5-10(9,3)8(11)6-7/h7-8H,4-6H2,1-3H3
<b>InchiKey:</b>	XXZAOMJJCZBZKPV-UHFFFAOYSA-N
<b>Formula:</b>	C10H17Cl
<b>SMILES:</b>	CC1(C)C2CCC1(C)C(Cl)C2
<b>Mol. weight [g/mol]:</b>	172.69
<b>CAS:</b>	464-41-5

## Physical Properties

Property code	Value	Unit	Source
gf	104.39	kJ/mol	Joback Method
hf	-136.23	kJ/mol	Joback Method
hfus	9.57	kJ/mol	Joback Method
hvap	39.32	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.440		Crippen Method
mcvol	142.280	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
tb	474.52	K	Joback Method
tc	695.58	K	Joback Method
tf	404.00 ± 4.00	K	NIST Webbook
tf	400.00 ± 3.00	K	NIST Webbook
vc	0.544	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	322.18	J/mol×K	474.52	Joback Method
cpg	341.45	J/mol×K	511.36	Joback Method
cpg	359.03	J/mol×K	548.21	Joback Method
cpg	375.17	J/mol×K	585.05	Joback Method
cpg	390.11	J/mol×K	621.90	Joback Method
cpg	404.10	J/mol×K	658.74	Joback Method
cpg	417.38	J/mol×K	695.58	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=C464415&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C464415&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>

## 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>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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