

# Tetramethylammonium chloride

<b>Other names:</b>	Ammonium, tetramethyl-, chloride Methanaminium, N,N,N-trimethyl-, chloride TMAC USAF AN-8
<b>Inchi:</b>	InChI=1S/C4H12N.ClH/c1-5(2,3)4;/h1-4H3;1H/q+1;/p-1
<b>InchiKey:</b>	OKIZCWYLBKLSU-UHFFFAOYSA-M
<b>Formula:</b>	C4H12ClN
<b>SMILES:</b>	C[N+](C)(C)C.[Cl-]
<b>Mol. weight [g/mol]:</b>	109.60
<b>CAS:</b>	75-57-0

## Physical Properties

Property code	Value	Unit	Source
ss	190.71	J/molxK	NIST Webbook
tf	612.87	K	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids
tf	614.70	K	Can cholinium chloride form eutectic solvents with organic chloride-based salts?

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	156.94	J/molxK	298.15	NIST Webbook

## Sources

Surface and Micellar Properties of Ionic Liquid 1-Dodecyl-3-methylimidazolium Bromide in Aqueous Solution in the Absence and Presence of a Series of Organic Electrolytes: <https://www.doi.org/10.1021/je5010005>

