

# tetrahexylammonium perchlorate

<b>Other names:</b>	1-hexanaminium, N,N,N-trihexyl-, perchlorate N,N,N-trihexyl-1-hexanaminium perchlorate Tetra-n-hexylammonium perchlorate ammonium, tetrahexyl-, perchlorate
<b>Inchi:</b>	InChI=1S/C24H52N.CIHO4/c1-5-9-13-17-21-25(22-18-14-10-6-2,23-19-15-11-7-3)24-20-
<b>InchiKey:</b>	RLCKPGXHGKSGOS-UHFFFAOYSA-M
<b>Formula:</b>	C24H52ClNO4
<b>SMILES:</b>	CCCCC[N+](CCCCC)(CCCCC)CCCCC.[O-][Cl+3]([O-])([O-])[O-]
<b>Mol. weight [g/mol]:</b>	454.13
<b>CAS:</b>	4656-81-9

## Physical Properties

Property code	Value	Unit	Source
tf	383.00 ± 0.50	K	NIST Webbook
tt	379.22 ± 0.01	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	744.00	J/mol×K	298.15	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4656819&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4656819&amp;Units=SI</a>
<b>Conductivity and Dissociation Constants of Quaternary Ammonium Perchlorates and Picrates in 4-Methyl-pentan-2-one:</b>	<a href="https://www.doi.org/10.1021/je9008969">https://www.doi.org/10.1021/je9008969</a>

## Legend

**cps:** Solid phase heat capacity  
**tf:** Normal melting (fusion) point  
**tt:** Triple Point Temperature

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