

# Tetrapropylammonium iodide

<b>Other names:</b>	1-Propanaminium, N,N,N-tripropyl-, iodide ammonium, tetrapropyl-, iodide tetra-n-Propylammonium iodide
<b>Inchi:</b>	InChI=1S/C12H28N.HI/c1-5-9-13(10-6-2,11-7-3)12-8-4;/h5-12H2,1-4H3;1H/q+1;/p-1
<b>InchiKey:</b>	GKXDJYKZFZVASJ-UHFFFAOYSA-M
<b>Formula:</b>	C12H28IN
<b>SMILES:</b>	CCC[N+](CCC)(CCC)CCC.[I-]
<b>Mol. weight [g/mol]:</b>	313.26
<b>CAS:</b>	631-40-3

## Physical Properties

Property code	Value	Unit	Source
ss	432.20	J/mol×K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	349.40	J/mol×K	298.15	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C631403&Units=SI>

**Volumetric Analysis of Structural Changes of Cationic Micelles in the Presence of Quaternary Ammonium Salts:**

<https://www.doi.org/10.1021/acs.jced.6b00332>

## Legend

**cps:** Solid phase heat capacity

**ss:** Solid phase molar entropy at standard conditions

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