

# Tin(IV) chloride

<b>Other names:</b>	Anhydrous tin tetrachloride Etain (tetrachlorure d') Fascat 4400 Libavius Fuming spirit Libavius' fuming spirit NSC 209802 SnCl <sub>4</sub> Stagno (tetracloruro di) Stannane, tetrachloro- Stannic chloride Stannic chloride, anhydrous Stannic tetrachloride Tetrachlorostannane Tetrachlorotin Tin (IV) chloride anhydrous Tin chloride Tin chloride (SnCl <sub>4</sub> ) Tin chloride, fuming Tin perchloride Tin tetrachloride Tin tetrachloride, anhydrous Tin(IV) tetrachloride Tin(iv) chloride (1:4) UN 1827 Zinntetrachlorid
<b>Inchi:</b>	InChI=1S/4ClH.Sn/h4*1H;/q;;;+4/p-4
<b>InchiKey:</b>	HPGGPRDJHPYFRM-UHFFFAOYSA-J
<b>Formula:</b>	Cl <sub>4</sub> Sn
<b>SMILES:</b>	Cl[Sn](Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	260.52
<b>CAS:</b>	7646-78-8

## Physical Properties

Property code	Value	Unit	Source
ea	2.50 ± 0.05	eV	NIST Webbook
ea	2.40 ± 0.10	eV	NIST Webbook

ea	2.20 ± 0.20	eV	NIST Webbook
ea	2.49 ± 0.15	eV	NIST Webbook
ea	2.91	eV	NIST Webbook
ie	11.70 ± 0.20	eV	NIST Webbook
ie	11.50	eV	NIST Webbook
ie	11.88 ± 0.05	eV	NIST Webbook
ie	11.50 ± 0.40	eV	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.37743e+01
Coeff. B	-2.97985e+03
Coeff. C	-6.18500e+01
Temperature range (K), min.	250.45
Temperature range (K), max.	387.30

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7646788&Units=SI>

The Yaws Handbook of Vapor Pressure:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

## Legend

**ea:** Electron affinity  
**ie:** Ionization energy  
**pvap:** Vapor pressure

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