

Tin(II) chloride

Other names:	Anhydrous stannous chloride C.I. 77864 Fascat 2004 NA 1759 NCI-C02722 Single muriate of tin SnCl ₂ Stannochlor Stannous chloride Tin (II) chloride anhydrous Tin chloride Tin chloride (SnCl ₂) Tin crystals Tin dichloride Tin protochloride Tin salt Tin salts Tin(ii) chloride (1:2)
Inchi:	InChI=1S/2ClH.Sn/h2*1H;/q;;+2/p-2
InchiKey:	AXZWODMDQAVCJE-UHFFFAOYSA-L
Formula:	Cl ₂ Sn
SMILES:	Cl[SnH ₂]Cl
Mol. weight [g/mol]:	189.62
CAS:	7772-99-8

Physical Properties

Property code	Value	Unit	Source
ea	1.75	eV	NIST Webbook
ea	1.04	eV	NIST Webbook
ie	10.10 ± 0.40	eV	NIST Webbook
ie	10.31	eV	NIST Webbook
ie	10.37 ± 0.05	eV	NIST Webbook
ie	10.31 ± 0.05	eV	NIST Webbook
ie	10.00	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.52919e+01
Coeff. B	-8.53194e+03
Coeff. C	-9.67900e+01
Temperature range (K), min.	589.15
Temperature range (K), max.	896.15

Sources

The Yaws Handbook of Vapor
Pressure:
Solubility of Sodium Salts in
Ammonium-Based Deep Eutectic
Solvents

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

<https://www.doi.org/10.1021/je400045d>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7772998&Units=SI>

Legend

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

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