

Antimony pentachloride

Other names:	Antimonpentachlorid
	Antimony chloride
	Antimony chloride (SbCl5)
	Antimony pentachloride (SbCl5)
	Antimony perchloride
	Antimony(V) chloride
	Antimoonpentachloride
	Pentachloroantimony
	Pentachlorure d'antimoine
	Perchlorure d'antimoine
	SbCl5
	UN 1730
Inchi:	InChI=1S/5ClH.Sb/h5*1H;/q;;;;;+5/p-5
InchiKey:	VMPVEPPRYRXYNP-UHFFFAOYSA-I
Formula:	Cl5Sb
SMILES:	Cl[Sb](Cl)(Cl)(Cl)Cl
Mol. weight [g/mol]:	299.02
CAS:	7647-18-9

Physical Properties

Property code	Value	Unit	Source
ie	10.80	eV	NIST Webbook
ie	11.47 ± 0.15	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.58649e+01
Coeff. B	-4.71263e+03
Coeff. C	-3.22900e+01
Temperature range (K), min.	295.85
Temperature range (K), max.	387.25

Sources

The Yaws Handbook of Vapor
Pressure:
NIST Webbook:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7647189&Units=SI>

Legend

ie: Ionization energy
pvap: Vapor pressure

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