

Antimony triiodide

Other names:	Antimony iodide (SbI ₃) Antimony(III) iodide Stibine, triiodo-
Inchi:	InChI=1S/3HI.Sb/h3*1H;/q;;;+3/p-3
InchiKey:	KWQLUUQBTAXYCB-UHFFFAOYSA-K
Formula:	I ₃ Sb
SMILES:	I[Sb](I)I
Mol. weight [g/mol]:	502.47
CAS:	7790-44-5

Physical Properties

Property code	Value	Unit	Source
ie	9.06	eV	NIST Webbook
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Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53777e+01
Coeff. B	-6.71220e+03
Coeff. C	-5.03000e+01
Temperature range (K), min.	436.75
Temperature range (K), max.	674.15

Sources

Adducts of antimony triiodide and 2-aminomethylpyridines: Synthesis, characterization and thermochemistry: NIST Webbook

<https://www.doi.org/10.1016/j.tca.2005.08.006>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7790445&Units=SI>

The Yaws Handbook of Vapor Pressure:

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

Legend

ie: Ionization energy

pvap: Vapor pressure

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<https://www.cheméo.com/cid/71-276-7/Antimony-triiodide.pdf>

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