

# Stibine, trimethyl-

**Other names:** (CH<sub>3</sub>)<sub>3</sub>Sb; Trimethylantimony; Trimethylstibine.

**InChI:** InChI=1S/3CH3.Sb/h3\*1H3;

**InChI Key:** PORFVJURJXKREL-UHFFFAOYSA-N

**Formula:** C<sub>3</sub>H<sub>9</sub>Sb

**SMILES:** C[Sb](C)C

**Molecular Weight:** 166.86

**CAS:** 594-10-5



## Physical Properties

Property	Value	Unit	Source
$\Delta_c H^\circ_{\text{liquid}}$	-2921.00 ± 25.00	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{gas}}$	32.00 ± 25.00	kJ/mol	NIST Webbook
$\Delta_f H^\circ_{\text{liquid}}$	1.00 ± 25.00	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	32.50 ± 0.01	kJ/mol	NIST Webbook
$\Delta_{\text{vap}} H^\circ$	31.40 ± 1.30	kJ/mol	NIST Webbook
IE	7.70	eV	NIST Webbook
IE	8.04 ± 0.16	eV	NIST Webbook
IE	8.48	eV	NIST Webbook
IE	8.48	eV	NIST Webbook

## Sources

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/3CH3.Sb/h3\\*1H3;](http://webbook.nist.gov/cgi/inchi/InChI=1S/3CH3.Sb/h3*1H3;)

## Legend

$\Delta_c H^\circ_{\text{liquid}}$ : Standard liquid enthalpy of combustion (kJ/mol).

$\Delta_f H^\circ_{\text{gas}}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_f H^\circ_{\text{liquid}}$ : Liquid phase enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{\text{vap}}H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).  
**IE**: Ionization energy (eV).

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