Stannane, tetraethyl-

Other names:	Tetraethyltin
	Tetraethylstannane
	(C2H5)4Sn
	Tin, tetraethyl-
	TET
Inchi:	InChI=1S/4C2H5.Sn/c4*1-2;/h4*1H2,2H3;
InchiKey:	RWWNQEOPUOCKGR-UHFFFAOYSA-N
Formula:	C8H20Sn
SMILES:	CC[Sn](CC)(CC)CC
Mol. weight [g/mol]:	234.95
CAS:	597-64-8

Physical Properties

Property code	Value	Unit	Source
chl	-6489.40 ± 8.40	kJ/mol	NIST Webbook
chl	-6491.40 ± 2.30	kJ/mol	NIST Webbook
chl	-6472.60 ± 8.40	kJ/mol	NIST Webbook
chl	-6468.00 ± 6.30	kJ/mol	NIST Webbook
chl	-6363.90	kJ/mol	NIST Webbook
hf	-42.00 ± 2.60	kJ/mol	NIST Webbook
hf	-169.50	kJ/mol	NIST Webbook
hf	-60.80 ± 8.50	kJ/mol	NIST Webbook
hf	-44.00 ± 8.50	kJ/mol	NIST Webbook
hf	-65.40 ± 6.40	kJ/mol	NIST Webbook
hfl	-220.10	kJ/mol	NIST Webbook
hfl	-111.40 ± 8.50	kJ/mol	NIST Webbook
hfl	-94.60 ± 8.50	kJ/mol	NIST Webbook
hfl	-92.60 ± 2.60	kJ/mol	NIST Webbook
hfl	-116.00 ± 6.40	kJ/mol	NIST Webbook
hvap	50.60 ± 0.20	kJ/mol	NIST Webbook
hvap	50.60 ± 0.20	kJ/mol	NIST Webbook
ie	8.87	eV	NIST Webbook
ie	10.30	eV	NIST Webbook
ie	8.93	eV	NIST Webbook
ie	9.00	eV	NIST Webbook
rinpol	1049.00		NIST Webbook
rinpol	1049.00		NIST Webbook

rinpol	1037.00		NIST Webbook
rinpol	1038.00		NIST Webbook
rinpol	1039.00		NIST Webbook
tb	473.10 ± 0.50	K	NIST Webbook
tf	142.14 ± 0.20	K	NIST Webbook
tt	141.90 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	301.70	J/mol×K	298.15	NIST Webbook
hfust	9.15	kJ/mol	142.10	NIST Webbook
hfust	9.15	kJ/mol	142.10	NIST Webbook
hfust	9.15	kJ/mol	142.14	NIST Webbook
hvapt	46.60 ± 0.60	kJ/mol	374.00	NIST Webbook
hvapt	42.40	kJ/mol	353.00	NIST Webbook
sfust	64.35	J/mol×K	142.14	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C597648&Units=SI

Legend

chl: Standard liquid enthalpy of combustion
cpl: Liquid phase heat capacity
hf: Enthalpy of formation at standard conditions
hfl: Liquid phase enthalpy of formation at standard conditions
hfust: Enthalpy of fusion at a given temperature
hvap: Enthalpy of vaporization at standard conditions
hvapt: Enthalpy of vaporization at a given temperature
ie: Ionization energy
rinpol: Non-polar retention indices
sfust: Entropy of fusion at a given temperature
tb: Normal Boiling Point Temperature

tf: Normal melting (fusion) point

tt: Triple Point Temperature