

Stannane, tetraphenyl-

Other names:	Tetraphenylstannane Tetraphenyltin Tin, tetraphenyl-,
Inchi:	InChI=1S/4C6H5.Sn/c4*1-2-4-6-5-3-1;/h4*1-5H;
InchiKey:	CRHIAMBJMSSNNM-UHFFFAOYSA-N
Formula:	C ₂₄ H ₂₀ Sn
SMILES:	c1ccc([Sn](c2ccccc2)(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]:	427.13
CAS:	595-90-4

Physical Properties

Property code	Value	Unit	Source
chs	-13839.00 ± 13.00	kJ/mol	NIST Webbook
chs	-13566.60 ± 7.10	kJ/mol	NIST Webbook
chs	-13293.40 ± 5.40	kJ/mol	NIST Webbook
chs	-13368.00 ± 13.00	kJ/mol	NIST Webbook
chs	-13295.60 ± 3.40	kJ/mol	NIST Webbook
hsub	161.10 ± 4.20	kJ/mol	NIST Webbook
hsub	161.10 ± 4.20	kJ/mol	NIST Webbook
hsub	59.50	kJ/mol	NIST Webbook
ie	9.04	eV	NIST Webbook
ie	8.10	eV	NIST Webbook
ie	8.34 ± 0.03	eV	NIST Webbook
tf	499.15 ± 2.00	K	NIST Webbook
tf	499.10 ± 0.70	K	NIST Webbook
tf	503.20 ± 4.00	K	NIST Webbook
tf	501.00 ± 2.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	426.30	J/mol×K	298.50	NIST Webbook
hfust	37.20	kJ/mol	502.20	NIST Webbook
hsubt	151.70	kJ/mol	427.00	NIST Webbook

hsubt	152.50 ± 0.60	kJ/mol	441.00	NIST Webbook
hsubt	151.80 ± 1.10	kJ/mol	427.00	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C595904&Units=SI>

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
ie:	Ionization energy
tf:	Normal melting (fusion) point

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