Tetraethyllead

Other names:	Plumbane, tetraethyl-
	Lead tetraethyl
	Tetraethylplumbane
	TEL
	(C2H5)4Pb
	Czteroetylek olowiu
	NCI-C54988
	Tel-tml, reacted
	Tetra(methylethyl)lead
	Piombo tetra-etile
	Rcra waste number P110
	Tetraethylolovo
	NSC 22314
Inchi:	InChI=1S/4C2H5.Pb/c4*1-2;/h4*1H2,2H3;
InchiKey:	MRMOZBOQVYRSEM-UHFFFAOYSA-N
Formula:	C8H20Pb
SMILES:	CC[Pb](CC)(CC)CC
Mol. weight [g/mol]:	323.40
CAS:	78-00-2

Physical Properties

Property code	Value	Unit	Source
chl	-6383.50 ± 2.50	kJ/mol	NIST Webbook
hf	109.60 ± 5.10	kJ/mol	NIST Webbook
hfl	53.00 ± 5.00	kJ/mol	NIST Webbook
hvap	56.60 ± 1.00	kJ/mol	NIST Webbook
hvap	56.60 ± 1.00	kJ/mol	NIST Webbook
ie	11.10	eV	NIST Webbook
sl	464.60	J/mol×K	NIST Webbook
tb	455.70 ± 1.50	K	NIST Webbook
tf	142.94 ± 0.20	K	NIST Webbook
tt	141.49 ± 0.02	K	NIST Webbook
tt	139.41 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	307.40	J/mol×K	298.15	NIST Webbook
cpl	310.00	J/mol×K	298.15	NIST Webbook
hfust	8.79	kJ/mol	142.94	NIST Webbook
hfust	9.11	kJ/mol	141.40	NIST Webbook
hfust	9.11	kJ/mol	141.40	NIST Webbook
hvapt	57.30	kJ/mol	383.50	NIST Webbook
hvapt	56.30	kJ/mol	308.00	NIST Webbook
hvapt	56.70	kJ/mol	387.00	NIST Webbook
sfust	61.50	J/mol×K	142.94	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C78002&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
sfust: Entropy of fusion at a given temperature
sl: Liquid phase molar entropy at standard conditions
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point
tt: Triple Point Temperature