

# Lead, tetramethyl-

<b>Other names:</b>	Plumbane, tetramethyl- Tetramethyllead Tetramethylplumbane (CH <sub>3</sub> ) <sub>4</sub> Pb Piombo tetra-metile Tetramethylolovo TML
<b>Inchi:</b>	InChI=1S/4CH <sub>3</sub> .Pb/h4*1H3;
<b>InchiKey:</b>	XOOGZRUBTYCLHG-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>4</sub> H <sub>12</sub> Pb
<b>SMILES:</b>	C[Pb](C)(C)C
<b>Mol. weight [g/mol]:</b>	267.30
<b>CAS:</b>	75-74-1

## Physical Properties

Property code	Value	Unit	Source
chl	-3711.20 ± 1.30	kJ/mol	NIST Webbook
chl	-3636.70 ± 3.20	kJ/mol	NIST Webbook
chl	-3505.00 ± 13.00	kJ/mol	NIST Webbook
hf	14.00 ± 13.00	kJ/mol	NIST Webbook
hf	136.10 ± 4.40	kJ/mol	NIST Webbook
hf	167.60 ± 3.30	kJ/mol	NIST Webbook
hfl	98.10 ± 4.40	kJ/mol	NIST Webbook
hfl	129.60 ± 3.30	kJ/mol	NIST Webbook
hfl	-25.00 ± 13.00	kJ/mol	NIST Webbook
hvap	38.00 ± 0.40	kJ/mol	NIST Webbook
ie	8.00 ± 0.40	eV	NIST Webbook
ie	8.50 ± 0.04	eV	NIST Webbook
ie	8.80 ± 0.10	eV	NIST Webbook
ie	8.26 ± 0.17	eV	NIST Webbook
ie	9.30	eV	NIST Webbook
sl	319.99	J/mol×K	NIST Webbook
tf	242.92 ± 0.10	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	202.50	J/mol×K	298.15	NIST Webbook
hfust	10.80	kJ/mol	242.92	NIST Webbook
hfust	10.80	kJ/mol	242.90	NIST Webbook
hfust	10.80	kJ/mol	242.90	NIST Webbook
hvapt	35.70	kJ/mol	303.00	NIST Webbook
sfust	44.43	J/mol×K	242.92	NIST Webbook

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C75741&Units=SI>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<b>cpl:</b>	Liquid phase heat capacity
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>sl:</b>	Liquid phase molar entropy at standard conditions
<b>tf:</b>	Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/50-672-0/Lead-tetramethyl.pdf>

Generated by Cheméo on 2024-05-03 00:16:40.24602163 +0000 UTC m=+16984649.166598946.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.