

# Tetrabutyl titanate

<b>Other names:</b>	Titanium(IV) butoxide Tetrabutyl orthotitanate tetra-n-Butyl orthotitanate Titanium(IV) n-Butoxide 1-Butanol, titanium(4+) salt Butyl alcohol, titanium(4+) salt Butyl orthotitanate Butyl titanate(IV) Butyl titanate(IV) ((BuO) <sub>4</sub> Ti) Tetrabutoxytitanium Titanic acid, tetrabutyl ester Titanium butoxide (Ti(OBu) <sub>4</sub> ) Titanium tetrabutoxide Titanium tetrabutylate Titanium, tetrabutoxy- Tyzor BP Tyzor TBT Butyl titanate 1-Butanol, titanium(4+) salt (4:1) Titanium n-butoxide Titanium tetrakis(butoxide) Titanium(4+) butoxide titanium tetrabutanolate
<b>Inchi:</b>	InChI=1S/4C4H9O.Ti/c4*1-2-3-4-5;/h4*2-4H2,1H3;/q4*-1;+4
<b>InchiKey:</b>	YHWCPXVTRSHPNY-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>16</sub> H <sub>36</sub> O <sub>4</sub> Ti
<b>SMILES:</b>	CCCCO[Ti](OCCCC)(OCCCC)OCCCC
<b>Mol. weight [g/mol]:</b>	340.32
<b>CAS:</b>	5593-70-4

## Physical Properties

Property code	Value	Unit	Source
chl	-10742.00 ± 16.00	kJ/mol	NIST Webbook
hf	-1551.00 ± 19.00	kJ/mol	NIST Webbook
hf	-1576.30 ± 9.20	kJ/mol	NIST Webbook
hf	-1579.70 ± 9.70	kJ/mol	NIST Webbook

hf	-1578.00 ± 9.00	kJ/mol	NIST Webbook
hfl	-1643.00 ± 17.00	kJ/mol	NIST Webbook
hfl	-1668.30 ± 3.70	kJ/mol	NIST Webbook
hfl	-1671.70 ± 4.90	kJ/mol	NIST Webbook
hfl	-1670.00 ± 3.10	kJ/mol	NIST Webbook
hvap	92.00 ± 8.40	kJ/mol	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	711.00	J/mol×K	353.00	NIST Webbook
hvapt	47.60 ± 0.70	kJ/mol	370.50	NIST Webbook
hvapt	89.70	kJ/mol	513.00	NIST Webbook
hvapt	85.00 ± 3.10	kJ/mol	468.00	NIST Webbook

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C5593704&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>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature

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