

# Tetrabutylammonium hexafluorophosphate

Other names:	1-Butanaminium, N,N,N-tributyl-, hexafluorophosphate(1-)
Inchi:	InChI=1S/C16H36N.F6P/c1-5-9-13-17(14-10-6-2,15-11-7-3)16-12-8-4;1-7(2,3,4,5)6/h5-1
InchiKey:	BKBKEFQIOUYLBC-UHFFFAOYSA-N
Formula:	C16H36F6NP
SMILES:	CCCC[N+](CCCC)(CCCC)CCCC.F[P-](F)(F)(F)(F)F
Mol. weight [g/mol]:	387.43
CAS:	3109-63-5

## Physical Properties

Property code	Value	Unit	Source
tf	524.30	K	Solubility of non-aromatic hexafluorophosphate-based salts and ionic liquids in water determined by electrical conductivity
tf	344.15	K	Ion exchange synthesis and thermal characteristics of some [N+ 4444] based ionic liquids
tf	517.20 ± 0.50	K	NIST Webbook

## Sources

Solubility of non-aromatic hexafluorophosphate-based salts and ionic liquids and water miscibility by electrical conductivity	<a href="https://www.doi.org/10.1016/j.fluid.2013.07.061">https://www.doi.org/10.1016/j.fluid.2013.07.061</a>
Non-exchangeable imidazolium phosphoric salts of some [N+ 4444] tetrabutylammonium hexafluorophosphate in organic solvents at T = 298.15 K	<a href="https://www.doi.org/10.1016/j.jct.2005.07.018">https://www.doi.org/10.1016/j.jct.2005.07.018</a>
Ion exchange synthesis and thermal characteristics of some [N+ 4444] based ionic liquids	<a href="https://www.doi.org/10.1016/j.tca.2013.01.003">https://www.doi.org/10.1016/j.tca.2013.01.003</a>
NIST Webbook	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3109635&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3109635&amp;Units=SI</a>
Solubility of non-aromatic hexafluorophosphate-based salts and ionic liquids in water determined by electrical conductivity	<a href="https://www.doi.org/10.1016/j.fluid.2011.11.002">https://www.doi.org/10.1016/j.fluid.2011.11.002</a>

## Legend

tf: Normal melting (fusion) point

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