>>**Entry Name: Tetrabutylammonium(1+)**
Synonym(s): *N*,*N*,*N*-Tributyl-1-butanaminium, 9Cl

CAS Registry Number: 10549-76-5
Related CAS Registry Numbers(s): 914-45-4 2472-88-0 15522-59-5 22206-57-1 37451-68-6 38932-80-8 43064-96-6
$(H_3CCH_2CH_2CH_2)_4N^{(+)}$

Molecular Formula: $C_{16}H_{36}N^{(+)}$
Molecular Weight: 242.467
Accurate Mass: 242.284774
Percentage Composition: C 79.26%; H 14.96%; N 5.78%

>>**Derivative:** Hydroxide

CAS Registry Number: 2052-49-5
Molecular Formula: $C_{16}H_{37}NO$
Molecular Weight: 259.474
Accurate Mass: 259.287514
Percentage Composition: C 74.06%; H 14.37%; N 5.40%; O 6.17%
Use/Importance: Strong base, suitable for use as nonaqueous titrant. Reagent for hydrol. of steroidal tosylates

Aldrich: 39689-3
Fluka: 86922
Sigma: T2761

>>**Derivative:** Fluoride

CAS Registry Number: 429-41-4
Extra CAS Registry Numbers(s): 87749-50-6
Molecular Formula: $C_{16}H_{36}FN$
Molecular Weight: 261.465
Accurate Mass: 261.283177
Percentage Composition: C 73.50%; H 13.88%; F 7.27%; N 5.36%
Use/Importance: Catalyst for aldol condensations, acetylations etc. Fluoride ion source. Used to cleave silyl ethers
Physical Description: Cryst. + $18H_2O$
Melting Point: Mp 37°
Other Data: Also forms a hydrate with $32.8H_2O$, Mp 25°
Aldrich: 36139-9
Fluka: 86923
Sigma: T5392

>>**Derivative:** Hydrogen difluoride

CAS Registry Number: 23868-34-0
Molecular Formula: $C_{16}H_{37}F_2N$
Molecular Weight: 281.472
Accurate Mass: 281.289405
Percentage Composition: C 68.28%; H 13.25%; F 13.50%; N 4.98%
Use/Importance: Fluorinating agent
Melting Point: Mp 30-32°

>>**Derivative:** Chloride

CAS Registry Number: 1112-67-0
Molecular Formula: $C_{16}H_{36}ClN$
Molecular Weight: 277.92
Accurate Mass: 277.253626
Percentage Composition: C 69.15%; H 13.06%; Cl 12.76%; N 5.04%
Melting Point: Mp 73-75°
Aldrich: 39687-7
Fluka: 86870
Sigma: T7532