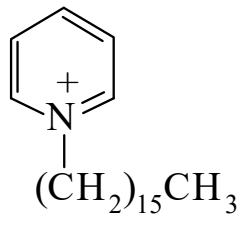
>>**Entry Name: 1-Hexadecylpyridinium(1+)**
Synonym(s): Cetylpyridinium. Ceepryn. Many other names



CAS Registry Number: 7773-52-6
Related CAS Registry Numbers(s): 6004-24-6

Molecular Formula: $C_{21}H_{38}N^{(+)}$
Molecular Weight: 304.538
Accurate Mass: 304.300424
Percentage Composition: C 82.82%; H 12.58%; N 4.60%
Use/Importance: Surface active agent with bactericidal properties; used in throat pastilles etc. Used as a 0.2-0.3% aq. soln. to increase sensitivity in photometric detn. of metals; forms ternary complexes with metal ions and some chromogenic reagents
Calculated Log P Data: Log P 5.24 (uncertain value) (calc)

>>**Derivative:** Chloride
Synonym(s): Cetylpyridinium chloride, BAN, INN**.** Biosept. Ceepryn. Cepacol. Ceprim. Cetafilm. Merocet

CAS Registry Number: 123-03-5
Molecular Formula: $C_{21}H_{38}ClN$
Molecular Weight: 339.991
Accurate Mass: 339.269276
Percentage Composition: C 74.19%; H 11.27%; Cl 10.43%; N 4.12%
Melting Point: Mp 87-88°
Solubility: Sol. H_2O
Other Data: Monohydrate, Mp 77-83°
Hazard & Toxicity: Eye and skin irritant. LD_{50} (rat, orl) 200 mg/kg

>>**Derivative:** Bromide
Synonym(s): Acetoquat CPB. Bromocet. Cetapharm. Cetasol. Cetazol 80. Nitrogenol. Sterogenol

CAS Registry Number: 140-72-7
Molecular Formula: $C_{21}H_{38}BrN$
Molecular Weight: 384.442
Accurate Mass: 383.23876
Percentage Composition: C 65.61%; H 9.96%; Br 20.78%; N 3.64%
Physical Description: Microcryst.
Melting Point: Mp 61-62°. Mp 66-68°
Solubility: Sol. H_2O, EtOH

Fluka: 52340
Rare Chemicals Library: S51968-5
Sigma: C5881

>>**Derivative:** Iodide

CAS Registry Number: 2349-55-5
Molecular Formula: $C_{21}H_{38}IN$
Molecular Weight: 431.442
Accurate Mass: 431.204897
Percentage Composition: C 58.46%; H 8.88%; I 29.41%; N 3.25%
Melting Point: Mp 101°

References: