>>**Entry Name: Choline**
ENTRY UNDER REVIEW
Synonym(s): 2-Hydroxy-*N,N,N*-trimethylethanaminium(1+), $_{9}Cl$. (2-Hydroxyethyl)trimethylammonium. Bilineurine. Sincalin. Sinkalin. **Amanitin‡.** Araquine. Arachine

CAS Registry Number: 62-49-7
Related CAS Registry Numbers(s): 87-67-2 23038-04-2 55357-38-5 64681-08-9

$Me_3N^{(+)}CH_2CH_2OH$

Molecular Formula: $C_5H_{14}NO^{(+)}$
Molecular Weight: 104.172
Accurate Mass: 104.107539
Percentage Composition: C 57.65%; H 13.55%; N 13.45%; O 15.36%
Biological Source: Occurs free and combined in many animal and vegetable prods., e.g. bile, brain, yolk of egg, hops, belladonna, strophanthus, and the seeds, leaves and stems of many other plants. Constit. of Lecithin. Acetylcholine precursor
Use/Importance: Lipotropic agent. Nutritional supplement

Fluka: 26972
Sigma: C9154

>>**Derivative:** Hydroxide
CAS Registry Number: 123-41-1
Molecular Formula: $C_5H_{15}NO_2$
Molecular Weight: 121.179
Accurate Mass: 121.110279
Percentage Composition: C 49.56%; H 12.48%; N 11.56%; O 26.41%
Physical Description: Syrup, cryst. with difficulty
Solubility: V. sol. H_2O, EtOH; insol. Et_2O
Other Data: Strong base, absorbs CO_2 from air. Forms cryst. addn. compds. with H_2PtCl_6 etc.

Aldrich: 33301-8

>>**Derivative:** Chloride
Synonym(s): Choline chloride, INN

CAS Registry Number: 67-48-1
Molecular Formula: $C_5H_{14}ClNO$
Molecular Weight: 139.624
Accurate Mass: 139.076391
Percentage Composition: C 43.01%; H 10.11%; Cl 25.39%; N 10.03%; O 11.46%
Use/Importance: Lipotropic agent used to treat liver disorders
Physical Description: Deliquescent cryst.
Hazard & Toxicity: LD_{50} (rat, orl) 3400 mg/kg

Aldrich: C7970-0
Fluka: 26980
Sigma: C1879

>>**Derivative:** Iodide
CAS Registry Number: 17773-10-3
Molecular Formula: $C_5H_{14}INO$
Molecular Weight: 231.076
Accurate Mass: 231.012012
Percentage Composition: C 25.99%; H 6.11%; I 54.92%; N 6.06%; O 6.92%
Melting Point: Mp 272-274°
Aldrich: C7971-9
Sigma: C2129