



>>Derivative: *O*-Nitrate, perchlorate

Synonym(s): **Nitricholine perchlorate**, INN. Choline perchlorate nitrate

CAS Registry Number: 7009-91-8

Molecular Formula: $C_5H_{13}ClN_2O_7$

Molecular Weight: 248.62

Accurate Mass: 248.04113

Percentage Composition: C 24.16%; H 5.27%; Cl 14.26%; N 11.27%; O 45.05%

Use/Importance: Cholinergic agent

Melting Point: Mp 185-186°

>>Derivative: Phosphate (inner salt)

see Choline *O*-phosphate, [DRK45-I](#)

>>Derivative: Sulfate (inner salt)

Synonym(s): *N,N,N*-Trimethyl-2-(sulfooxy)ethanaminium hydroxide inner salt, 9CI. Cholinesulfuric acid

CAS Registry Number: 4858-96-2

Molecular Formula: $C_5H_{13}NO_4S$

Molecular Weight: 183.228

Accurate Mass: 183.056529

Percentage Composition: C 32.78%; H 7.15%; N 7.64%; O 34.93%; S 17.50%

Biological Source: Present in *Penicillium* spp., *Aspergillus sydowi*, *Porphyra umbilicalis*, *Ptilota pectinata* and *Dermatiscum thunbergii*

Physical Description: Cryst.

Melting Point: Mp 300 dec.°

>>Derivative: Salicylate (1:1)

see 2-Hydroxybenzoic acid, [BLP36-T](#)

>>Derivative: Dihydrogen citrate

CAS Registry Number: 77-91-8

Use/Importance: Lipotropic agent

Physical Description: Granules

Melting Point: Mp 105-107.5°

Sigma: C2904

>>Derivative: Dihydrogen citrate, Fe complex

see Triaqua[hydrogencitrato(3-)]iron, [JMZ43-I](#)

>>Derivative: Theophylline salt (1:1)

Synonym(s): Choline theophyllinate, BAN, INN. Cholinophylline. **Oxtriphylline**, USAN. Oxytrimethylline

CAS Registry Number: 4499-40-5

Molecular Formula: $C_8H_{20}NO_6P$

Molecular Weight: 257.223

Accurate Mass: 257.102826

Percentage Composition: C 37.36%; H 7.84%; N 5.45%; O 37.32%; P 12.04%

Use/Importance: Smooth muscle relaxant, bronchodilator and diuretic

Physical Description: Granules

Hazard & Toxicity: LD₅₀ (rat, orl) 600 mg/kg

>>Derivative: Bitartrate

CAS Registry Number: 87-67-2

Physical Description: Hygroscopic solid

Melting Point: Mp 151-153°

Aldrich: 34449-4

Sigma: C1629

>>Derivative: *O*-Ac