

QUATERNARY AMMONIUM COMPOUNDS (QUATS)

Abbreviation	Product Name	CAS No.	Application Examples
ALGENE N40	Algene N-40 (Dcp 1062)	1119-97-7	Disinfectant
BKCC14	Benzyl dimethyl tetradecyl-ammonium Chloride Solid	139-08-2	Algaecides, Analytical Chemistry, Epoxy Resins, Preservative, Microbiocides
BKCC16	Benzyl dimethyl hexadecyl-ammonium Chloride Solid	122-18-9	Cationic Surfactants, Fungicide, Germicide, Mildew Preventative in Silicon-based Water Repellents, Leather Processing, Textile Dyeing
BTBAB	Benzyl tributyl ammonium Bromide Solid	25316-59-0	Analytical Chemistry, Curing Agent for Coatings & Resins, Polymers & Plastics, Pharmaceutical Intermediate, PTC, Water Treatment
BTBAC	Benzyl tributyl ammonium Chloride Solid	23616-79-7	Agrochemicals, Curing Agent for Coatings & Resins, Polymers & Plastics, Pharmaceutical Intermediate, PTC
BTEAC & BTEAC50%	Benzyl triethyl ammonium Chloride Solid & in 50% H2O Solution	56-37-1	Antistatic Agent, Coatings, Electronics, Flavours & Fragrances, Insecticides, Pharmaceutical Intermediate, Polymers & Plastics
BTM AC	Benzyl trimethyl ammonium Chloride Solid	56-93-9	Cellulose Solvent, Emulgator, Pharmaceutical intermediate, Polymerisation Inhibitor, PTC
BTM A D CI	Benzyl trimethyl ammonium Dichloriodide Solid	114971-52-7	Disinfectants, Mild & Safe Brominating and Oxidising Agent in Organic Synthesis, Pesticides, Pharmaceutical Intermediate
BTMAOH	Benzyl trimethyl ammonium hydroxide (40% Solution in Methanol)	100-85-6	Phase-transfer reagent; Deep eutectic solvents (DESs), supporting electrolyte and general synthetic reagent.
BuTPPB	Butyl triphenyl phosphonium Bromide Solid	1779-51-7	Curing Agent for Coatings & Resins, Electronics, Flame Retardants, Pesticides, Pharmaceutical Intermediate
BuTPPC	Butyl triphenyl phosphonium Chloride Solid	13371-17-0	Curing Agent for Coatings & Resins, Flavours & Fragrances, Pharmaceutical Intermediate, Vitamins, Polymers & Plastics

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BZ TPPC	Benzyl triphenyl phosphonium Chloride Solid	1100-88-5	BTPP Phenoxide Salts & Pharmaceutical Intermediate, Curing Agent for Coatings & Resins, Vulcanising Agent in Fluorine Rubber
CTMAB	Cetyl trimethyl ammonium Bromide Solid	57-09-0	Antimicrobials, Antistatic Agent, Cosmetics, Emulsifying Agent, Pharmaceutical Intermediate, Preservatives, Polymers & Plastics, Surfactants
C TM AC	Cetyl trimethyl ammonium Chloride Solid	112-02-7	Antimicrobials, Antistatic, Conditioning & Emulsifying Agent, Preservatives, Surfactants, Topical Antiseptics Cationic Surfactant used in the synthesis of Mesoporous
CTAC 30% & 50%	Cetyl Trimethyl ammonium chloride in 30% & 50% H2O solution	112-02-7	Molecular Sieves & Micelle Complexes. Dispersant to prevent aggregation of nanoparticles. Conditioning Agent in Cosmetics & Surfactants in the Construction industries.
CETATS	Cetyl Trimethyl Ammonium-P-Toluene Sulfonate	138-32-9	Development of a Silica Grafted Polydentate Copper (II) Complex. Carbon Nanotubes Analysis. Pharmaceutical Intermediate.
DTM A B	Dodecyl trimethyl ammonium Bromide Solid	1119-94-4	Cationic Surfactant in Miscellaneous Compositions, Pharmaceutical Intermediate, PTC
DTM AC	Dodecyl trimethyl ammonium Chloride Solid	12-00-5	Analytical Chemistry, Cosmetics (Hand Sanitisers), Pharmaceutical Intermediate
D-Alanine methyl ester HCl	Tetrabutyl ammonium Iodide Solid	14316-06-4	Building block for peptide / pharmaceutical synthesis; chiral intermediate; API precursor
ETPPA	Ethyl triphenyl phosphonium acetate 70% in Methanol	35835-94-0	Phase-transfer catalyst; epoxy / phenolic resin curing & accelerator
ETPPB	Ethyl triphenyl phosphonium Bromide Solid	1530-32-1	Coatings, Pharmaceutical Intermediate, Polymers & Plastics, PTC
MES	Mecetronium Ethosulfate	3006-10-8	Disinfectant

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MTBAC75%	Methyl tributyl ammonium Chloride in 75% H ₂ O Solution	56375-79-2	Agrochemicals, Fungicides, Pharmaceutical Intermediate, PTC
MTE AC	Methyl triethyl ammonium Chloride Solid	10052-47-8	Agrochemicals, Chromatography, Dyes, Pharmaceutical Intermediate
MTOACl	Methyl Trioctyl Ammonium Chloride (Water < 1.0%, Assay > , 97.0%)	5137-55-3	Phase-transfer catalyst; metal extraction / solvent-extraction agent; separation (HPLC/ion-pair)
MTPPB	Methyl triphenyl phosphonium Bromide Solid	1779-49-3	Methylating Agent, Pharmaceutical Intermediate, Wittig Reagents
M yTA C	Myristyl trimethyl ammonium Chloride Solid	4574-04-3	Antistatic Agent, Cationic Surfactant, Cosmetics, Pharmaceutical Intermediate
P TM AC	Phenyl trimethyl ammonium Chloride Solid	138-24-9	Agrochemicals, Dyes, Methylating Agent, Pharmaceutical Intermediate
TBAAC	Tetra Butyl ammonium acetate	10534-59-5	Phase Transfer Catalyst; Mild Soluble Base in Organic Synthesis (Alkynylation, Sonogashira, Heck Reaction)
TBAB & TBAB50%	Tetrabutyl ammonium Bromide Solid & in 50% Solution	16 4 3 -19 -2	Antimicrobials, Antistatic Agents, Coatings, Cosmetics, Epoxy Resins, Fragrances & Flavours, Inks Production, Insecticides, Paints, Polymers & Plastics, Pharmaceutical Intermediate, PTC
TBANO ₃	Tetra Butyl Ammonium Nitrate	19 41- 2 7-1	Use as Phase Transfer Catalyst; Fertilizer in Agrochemicals
TBACl	Tetra butyl ammonium chloride 50% solution	1112-67-0	Phase-transfer reagent; Deep eutectic solvents (DESs), supporting electrolyte and general synthetic reagent.

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Abbreviation	Product Name	CAS No.	Application Examples
TBAF 1M Soln in THF	Tetrabutyl ammonium fluoride 1M solution in THF	429-41-4	A Reagent for the deprotection of silyl and N-sulfonyl groups in Fluorination reactions. Synthesis of 2-substituted indoles by cyclization reaction of various 2-ethynylanilines with terminal alkynes using Pd catalyst. As an activator in the synthesis of arylated or alkenylated alkynes by the coupling reaction of aryl and alkenyl halides with terminal alkynes in the presence of Pd catalyst. A Reactant for preparation of a Triple Monoamine reuptake inhibitors as a new generation of Antidepressants; Anti-diabetic polyacetylenic glucosides; Conjugated dienoic acid esters using Suzuki coupling reactions; Phosphoinositide 3-kinase (PI3K)/mammalian target of rapamycin (mTOR) dual inhibitors; Macrocyclic o-aminobenzamide Hsp90 inhibitor with antitumor activity; Alcohols via hydrolysis of alkyl silyl ethers neutral pH in mixed organic-aqueous buffered solutions; Oligoribonucleotides with phosphonate-modified linkages; Aryl alkyl alcohols via Nozaki-Hiyama allylation catalyzed by chiral bipyridyldiol ligands and chromium trichloride.
TBAF 3H ₂ O	Tetrabutyl ammonium Fluoride Trihydrate Solid	87749-50-6	Dehydrobromination Reactions, Preparation of Cellulose Derivatives, Surfactants, Synthesis of Lipophilic Peptides
TBAI	Tetrabutyl ammonium Iodide Solid	311-28-4	Catalytic Agent, Petrochemical Additive, Pharmaceutical Intermediate, Polarographic Analytical Reagent
TBATFB	Tetrabutyl ammonium Tetrafluoroborate Solid	429-42-5	Electrolytes, Etching Agent, Pharmaceutical Intermediate
TEAB	Tetraethyl ammonium Bromide Solid	71-91-0	Phase Transfer Catalyst; Ion-Pairing Reagent; Used in Pesticide Synthesis
TEAOH	Tetra Ethyl Ammonium Hydroxide 35% solution	77-98-5	Strong organic base; phase-transfer catalyst; etching / cleaning agent in electronics; template/structure directing agent in zeolite synthesis, Photovoltaic Chemicals, Surfactant
TMAC & TM AC 50 %	Tetramethyl ammonium Chloride Solid & 75-57-0 in 50% H ₂ O Solution	75-57-0	Hydrofracking Agent, Pharmaceutical Intermediate, PTC, Viscosity Controlling Agent

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TOAB	Tetraoctyl ammonium Bromide Solid	14866-33-2	Agrochemicals, Dyes, Pharmaceutical Intermediate, PTC
TBAOH	Tetra butyl ammonium hydroxide	2052-49-5	Dissolution of Cellulose, Catalyst for Azoles Synthesis, Preparation of Fatty Acid Salts, Pharmaceutical Intermediate
TBAF6PO	Tetrabutyl ammonium Hexafluoro Phosphate Solid	3109-63-5	Conductive Agent, Ion-Pairing Reagent in Chromatography, Pharmaceutical Intermediate, PTC
TBAHS	Tetrabutyl ammonium Hydrogen Sulphate Solid	32503-27-8	Agrochemicals, Coatings, Pharmaceutical Intermediate, PTC
TBAI	Tetrabutyl ammonium Iodide Solid	311-28-4	Catalytic Agent, Petrochemical Additive, Pharmaceutical Intermediate, Polarographic Analytical Reagent
TBATFB	Tetrabutyl ammonium Tetrafluoroborate Solid	429-42-5	Electrolytes, Etching Agent, Pharmaceutical Intermediate
TEAB	Tetraethyl ammonium Bromide Solid	71-91-0	Phase Transfer Catalyst; Ion-Pairing Reagent; Used in Pesticide Synthesis
TMAC & TM AC 50 %	Tetramethyl ammonium Chloride Solid & in 50% H2O Solution	75-57-0	Hydrofracking Agent, Pharmaceutical Intermediate, PTC, Viscosity Controlling Agent
TOAB	Tetraoctyl ammonium Bromide Solid	14866-33-2	Agrochemicals, Dyes, Pharmaceutical Intermediate, PTC
TBAOH	Tetra butyl ammonium hydroxide	2052-49-5	Dissolution of Cellulose, Catalyst for Azoles Synthesis, Preparation of Fatty Acid Salts, Pharmaceutical Intermediate
TBAF6PO	Tetrabutyl ammonium Hexafluoro Phosphate Solid	3109-63-5	Conductive Agent, Ion-Pairing Reagent in Chromatography, Pharmaceutical Intermediate, PTC

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TBAHS	Tetrabutyl ammonium Hydrogen Sulphate Solid	32503-27-8	Agrochemicals, Coatings, Pharmaceutical Intermediate, PTC
TEATFB	Tetra Ethyl Ammonium Tetra Fluoroborate	429-06-1	Phase Transfer Catalyst; Electrolyte Additive in Capillary Electrophoresis
Strong Cetrimide 40% solution	With composition C12:C14; 20:80)- with different ratio ... current ratio-60:40	1119-97-7	Germicide; Cationic Surfactant; Used in Nanomaterial Synthesis and Analytical Application

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