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QUATERNARY AMMONIUM COMPOUNDS (QUATS)

| Sr. No. | Abbreviation | Product Name | CAS No. | Application Examples |
|---------|------------------------|--|-------------|---|
| 01 | ALGENE N40 | Algene N-40 (Dcp 1062) | 1119-97-7 | Disinfectant |
| 02 | Barquat LB-50 | Benzalkonium chloride (BKC C12) 50% solution (Lauryl dimethyl benzyl ammonium chloride solution 50%) | 139-07-1 | Anti-Microbial Agent, Antibacterial Agent, Biocide, Surfactant |
| 03 | Barquat MS-100 | Benzalkonium chloride (BKC C14 + C12) Powder | 85409-22-9 | Antimicrobial agent used in disinfectants, sanitizers, personal care, and industrial cleaning |
| 04 | BKC C12 powder | Lauryl dimethyl benzyl ammonium chloride | 147228-80-6 | Quaternary salt, Antimicrobial agent used in disinfectants, sanitizers, water treatment, and industrial cleaning |
| 05 | BKCC14 | Benzyl dimethyl tetradecyl- ammonium Chloride Solid | 139-08-2 | Algaecides, Analytical Chemistry, Epoxy Resins, Preservative, Microbiocides |
| 06 | 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 |
| 07 | BKC Solution 50% (SDS) | Benzalkonium Chloride Solution 50% (SDS) | 8001-54-5 | Antimicrobial agent used in disinfectants, sanitizers, pharmaceuticals, and industrial hygiene applications |
| 08 | BTBAB | Benzyl tributyl ammonium Bromide Solid | 25316-59-0 | Analytical Chemistry, Curing Agent for Coatings & Resins, Polymers & Plastics, Pharmaceutical Intermediate, PTC, Water Treatment |
| 09 | BTBAC | Benzyl tributyl ammonium Chloride Solid | 23616-79-7 | Agrochemicals, Curing Agent for Coatings & Resins, Polymers & Plastics, Pharmaceutical Intermediate, PTC |

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| 10 | BTC | Benzethonium chloride | 121-54-0 | Antimicrobial agent used in antiseptics, disinfectants, cosmetics, pharmaceuticals, and industrial sanitation |
| 11 | BTC Solution 50% | Benzethonium chloride solution 50 % | 121-54-0 | Antimicrobial agent used in antiseptics, disinfectants, cosmetics, and industrial sanitation |
| 12 | 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 |
| 13 | BTMAC | Benzyl trimethyl ammonium Chloride Solid | 56-93-9 | Cellulose Solvent, Emulgator, Pharmaceutical intermediate, Polymerisation Inhibitor, PTC |
| 14 | BTMADCI | Benzyl trimethyl ammonium Dichloriodide Solid | 114971-52-7 | Disinfectants, Mild & Safe Brominating and Oxidising Agent in Organic Synthesis, Pesticides, Pharmaceutical Intermediate |
| 15 | BTMAOH 40% | Benzyl trimethyl ammonium hydroxide (40%Solution in Methanol) | 100-85-6 | Phase-transfer reagent; Deep eutectic solvents (DESs), supporting electrolyte and general synthetic reagent. |
| 16 | BuTPPB | Butyl triphenyl phosphonium Bromide Solid | 1779-51-7 | Curing Agent for Coatings & Resins, Electronics, Flame Retardants, Pesticides, Pharmaceutical Intermediate |
| 17 | BuTPPC | Butyl triphenyl phosphonium Chloride Solid | 13371-17-0 | Curing Agent for Coatings & Resins, Flavours & Fragrances, Pharmaceutical Intermediate, Vitamins, Polymers & Plastics |
| 18 | BZTPPC | Benzyl triphenyl phosphonium Chloride Solid | 1100-88-5 | BTPP Phenoxide Salts & Pharmaceutical Intermediate, Curing Agent for Coatings & Resins, Vulcanising Agent in Fluorine Rubber |

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| 19 | CDMEABr | Cetyl dimethyl ethyl ammonium bromide | 124-03-8 | Surfactant and antimicrobial, disinfectants, and industrial applications |
| 20 | CTMAB | Cetyl trimethyl ammonium Bromide Solid | 57-09-0 | Antimicrobials, Antistatic Agent, Cosmetics, Emulsifying Agent, Pharmaceutical Intermediate, Preservatives, Polymers & Plastics, Surfactants |
| 21 | CTMAC | 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 |
| 22 | 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. |
| 23 | CTMAPTS | Cetyl Trimethyl Ammonium-P-Toluene Sulfonate | 138-32-9 | Development of a Silica Grafted Polydentate Copper (II) Complex. Carbon Nanotubes Analysis. Pharmaceutical Intermediate. |
| 24 | DTMAB | Dodecyl trimethyl ammonium Bromide Solid | 1119-94-4 | Cationic Surfactant in Miscellaneous Compositions, Pharmaceutical Intermediate, PTC |
| 25 | DTMAC | Dodecyl trimethyl ammonium Chloride Solid | 112-00-5 | Analytical Chemistry, Cosmetics (Hand Sanitisers), Pharmaceutical Intermediate |
| 26 | ETMACl | Ethyl trimethyl ammonium chloride | 27697-51-4 | Antimicrobial agent, Surfactant used in detergents and personal care products, Polymer chemistry acts as a monomer for synthesising hydrogels. |

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|---------|---------------|---|------------|--|
| 27 | ETPPA | Ethyl triphenyl phosphonium acetate 70% in Methanol | 35835-94-0 | Phase-transfer catalyst; epoxy / phenolic resin curing & accelerator |
| 28 | ETPPB | Ethyl triphenyl phosphonium Bromide Solid | 1530-32-1 | Coatings, Pharmaceutical Intermediate, Polymers & Plastics, PTC |
| 29 | ETPPI | Ethyl triphenyl phosphonium iodide | 4736-60-1 | Phase transfer catalyst used in organic synthesis, pharmaceuticals, and fine chemical manufacturing (Wittig reactions) |
| 30 | MES | Mecetronium Ethosulfate | 3006-10-8 | Disinfectant |
| 31 | MOMTPPCL | Methoxy methyl triphenyl phosphonium chloride | 4009-98-7 | Chemical reagent used in pharmaceutical intermediates and organic synthesis |
| 32 | MTBAC75% | Methyl tributyl ammonium Chloride in 75% H2O Solution | 56375-79-2 | Agrochemicals, Fungicides, Pharmaceutical Intermediate, PTC |
| 33 | MTEAC | Methyl triethyl ammonium Chloride Solid | 10052-47-8 | Agrochemicals, Chromatography, Dyes, Pharmaceutical Intermediate |
| 34 | 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) |
| 35 | MTOACL Liquid | Methyl Tri-octyl (TriCapryl) Ammonium Chloride Liquid (Water < 5.0%, Assay > 90.0%) | 5137-55-3 | Phase-transfer catalyst; metal extraction / solvent-extraction agent; as cationic surfactant used to improve industrial chemical processes, wastewater treatment, and in pharmaceutical manufacturing. |

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| 36 | MTOACl 50% in Toluene | Methyl Tri-octyl (TriCapryl) Ammonium Chloride 50% in Toluene | 5137-55-3 | Phase transfer catalyst and extractant used in oil & gas, chemical processing, and industrial separations |
| 37 | MTPPB | Methyl triphenyl phosphonium Bromide Solid | 1779-49-3 | Methylating Agent, Pharmaceutical Intermediate, Wittig Reagents |
| 38 | MyTAB | Myristyl trimethyl ammonium bromide | 1119-97-7 | Surfactant and conditioning agent used in cosmetics, personal care, and preservative |
| 39 | MyTAC | Myristyl trimethyl ammonium Chloride Solid | 4574-04-3 | Antistatic Agent, Cationic Surfactant, Cosmetics, Pharmaceutical Intermediate |
| 40 | PTMAB | Phenyl trimethyl ammonium bromide | 16056-11-4 | Phase transfer catalyst used in chemical synthesis and industrial applications |
| 41 | PTMAC | Phenyl trimethyl ammonium Chloride Solid | 138-24-9 | Agrochemicals, Dyes, Methylating Agent, Pharmaceutical Intermediate |
| 42 | Strong Cetrimide 40% solution | Strong Cetrimide 40% solution | 1119-97-7 | Germicide; Cationic Surfactant; Used in Nanomaterial Synthesis and Analytical Application |
| 43 | TBAA | Tetra Butyl ammonium acetate | 10534-59-5 | Phase Transfer Catalyst; Mild Soluble Base in Organic Synthesis (Alkynylation, Sonogashira, Heck Reaction) |

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| 44 | TBAB & TBAB50% | Tetrabutyl ammonium Bromide Solid & in 50% Solution | 1643-19-2 | Antimicrobials, Antistatic Agents, Coatings, Cosmetics, Epoxy Resins, Fragrances & Flavours, Inks Production, Insecticides, Paints, Polymers & Plastics, Pharmaceutical Intermediate, PTC |
| 45 | TBACl 50% | Tetra butyl ammonium chloride 50% solution | 1112-67-0 | Phase-transfer reagent; Deep eutectic solvents (DESS), supporting electrolyte and general synthetic reagent. |
| 46 | TBAF 1M Soln in THF | Tetrabutyl ammonium fluoride 1M solution in THF | 429-41-4 | Phase transfer catalyst and deprotection reagent (removal of silyl protecting groups) used in complex API/intermediate synthesis |
| 47 | TBAF 3H ₂ O | Tetrabutyl ammonium Fluoride Trihydrate Solid | 87749-50-6 | Dehydrobromination Reactions, Preparation of Cellulose Derivatives, Surfactants, Synthesis of Lipophilic Peptides |
| 48 | TBAHS | Tetrabutyl ammonium Hydrogen Sulphate Solid | 32503-27-8 | Agrochemicals, Coatings, Pharmaceutical Intermediate, PTC |
| 49 | TBAI | Tetrabutyl ammonium Iodide Solid | 311-28-4 | Catalytic Agent, Petrochemical Additive, Pharmaceutical Intermediate, Polarographic Analytical Reagent |
| 50 | TBANO ₃ | Tetra Butyl Ammonium Nitrate | 1941-27-1 | Use as Phase Transfer Catalyst; Fertilizer in Agrochemicals |
| 51 | TBAOH 40% | Tetra butyl ammonium hydroxide solution 40% | 2052-49-5 | Dissolution of Cellulose, Catalyst for Azoles Synthesis, Preparation of Fatty Acid Salts, Pharmaceutical Intermediate |
| 52 | TBAF ₆ PO | Tetrabutyl ammonium Hexafluoro Phosphate Solid | 3109-63-5 | Conductive Agent, Ion-Pairing Reagent in Chromatography, Pharmaceutical Intermediate, PTC |

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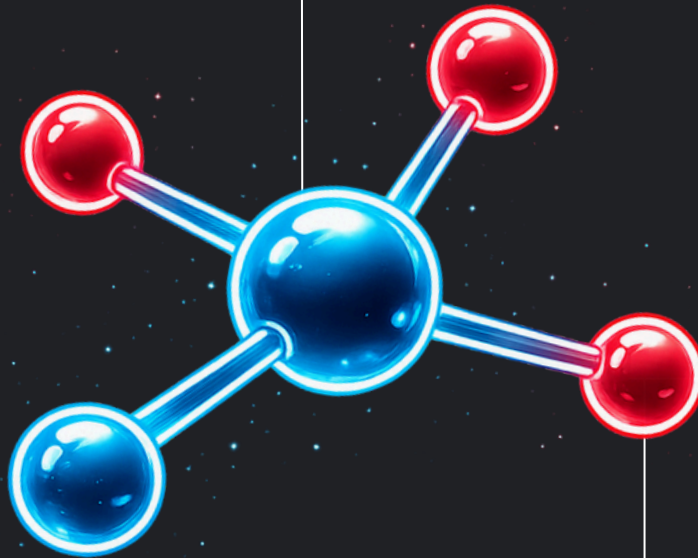
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| 53 | TBATFB | Tetrabutyl ammonium Tetrafluoroborate Solid | 429-42-5 | Electrolytes, Etching Agent, Pharmaceutical Intermediate |
| 54 | TEAB | Tetraethyl ammonium Bromide Solid | 71-91-0 | Phase Transfer Catalyst; Ion-Pairing Reagent; Used in Pesticide Synthesis |
| 55 | TEAOH (35% solution) | 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 |
| 56 | TEATFB | Tetra Ethyl Ammonium Tetra Fluoroborate | 429-06-1 | Phase Transfer Catalyst; Electrolyte Additive in Capillary Electrophoresis |
| 57 | TMAB | Tetra Methyl ammonium bromide | 64-20-0 | Ion-pair reagent; surfactant; conditioner ingredient; textile & paper softener; disinfectant, sanitizer & antimicrobial agent; antistatic agent; phase transfer catalyst in synthesis |
| 58 | TMAC & TMAC 50 % | Tetramethyl ammonium Chloride Solid & 50% solution in H2O | 75-57-0 | Hydrofracking Agent, Pharmaceutical Intermediate, PTC, Viscosity Controlling Agent |
| 59 | TOAB | Tetraoctyl ammonium Bromide Solid | 14866-33-2 | Agrochemicals, Dyes, Pharmaceutical Intermediate, PTC |
| 60 | TPAB | Tetra Propyl ammonium Bromide | 1941-30-6 | phase-transfer catalyst in organic synthesis and as a structure-directing agent (template) for synthesizing zeolites like ZSM-5, essential in petroleum refining |

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