



Perovskite Solar Cells

Codex International is **LUMTEC** official distributor in France

LT-S9126

Methylammonium iodide

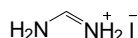
CAS No. : 14965-49-2
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_3IN
 M.W. : 158.97 g/mole
 Reference : *ACS Nano*, 2014, 8 (2), pp 1674-1680



LT-S9136

Formamidinium iodide

CAS No. : 879643-71-7
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_3IN_2
 M.W. : 171.97 g/mole
 Reference : *Energy Environ. Sci.*, 2014, 7, 982-988



LT-S9137

Methylammonium bromide

CAS No. : 6876-37-5
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_3BrN
 M.W. : 111.97 g/mole
 Reference : *Energy Environ. Sci.*, 2014, 7, 982-988

LT-S9147 | PbI_2

Lead(II) iodide

CAS No. : 10101-63-0
 Grade : 99.999% (trace metals basis)
 Formula : PbI_2
 M.W. : 461.01 g/mole
 Reference : 1. *Science*, 345, 542(2014)
 2. *ACS Nano*, 2014, 8 (2), pp 1674-1680

LT-S9148 | PbCl_2

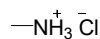
Lead(II) chloride

CAS No. : 7758-95-4
 Grade : 99.999% (trace metals basis)
 Formula : PbCl_2
 M.W. : 278.11 g/mole
 Reference : 1. *Science*, 345, 542(2014)
 2. *ACS Nano*, 2014, 8 (2), pp 1674-1680

LT-S9151 | Methylammonium chloride

Methylammonium chloride

CAS No. : 593-51-1
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_3ClN
 M.W. : 67.52 g/mole
 Reference : *Chem. Mater.*, 2013, 25 (22), pp 4613-4618

LT-S9152 | PbBr_2

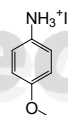
Lead(II) bromide

CAS No. : 10031-22-8
 Grade : 99.999% (trace metals basis)
 Formula : PbBr_2
 M.W. : 367.01 g/mole

LT-S9206

4-Methoxyphenylammonium iodide

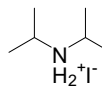
Grade : >99.5% , recrystallized 4 times
 Formula : $\text{C}_7\text{H}_{10}\text{INO}$
 M.W. : 251.06 g/mole



LT-S9207

Diisopropylammonium iodide

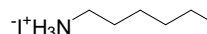
Grade : >99.5% , recrystallized 4 times
 Formula : $\text{C}_6\text{H}_{16}\text{IN}$
 M.W. : 229.1 g/mole



LT-S9208

Hexylammonium iodide

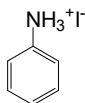
Grade : >99.5% , recrystallized 4 times
 Formula : $\text{C}_6\text{H}_{16}\text{IN}^+$
 M.W. : 229.1 g/mole



LT-S9209

Hexylammonium iodide

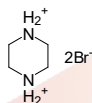
Grade : >99.5% , recrystallized 4 times
Formula : $C_6H_{16}IN^+$
M.W. : 229.1 g/mole



LT-S9217

Piperazine-1,4-dium bromide

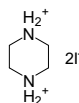
CAS No. : 59813-05-7
Grade : >99.5% , recrystallized 4 times
Formula : $C_4H_{12}Br_2N_2$
M.W. : 247.96 g/mole



LT-S9218

Piperazine-1,4-dium iodide

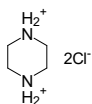
CAS No. : 58464-47-4
Grade : >99.5% , recrystallized 4 times
M.W. : $C_4H_{12}I_2N_2$
UV : 341.96 g/mole



LT-S9219

Piperazine-1,4-dium chloride

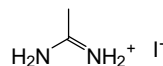
CAS No. : 142-64-3
Grade : >99.5% , recrystallized 4 times
Formula : $C_4H_{12}Cl_2N_2$
M.W. : 159.06 g/mole



LT-S9220

Acetamidinium iodide

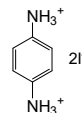
CAS No. : 1452099-14-7
Grade : >99.5% , recrystallized 4 times
Formula : $C_2H_7IN_2$
M.W. : 185.99 g/mole



LT-S9224

1,4-Benzene diammonium iodide

CAS No. : 116469-02-4
Grade : >99.5% , recrystallized 4 times
Formula : $C_6H_{10}I_2N_2$
M.W. : 363.97 g/mole



LT-S9225

Benzylammonium bromide

CAS No. : 37488-40-7
Grade : >99.5% , recrystallized 4 times
Formula : C_7H_9BrN
M.W. : 188.06 g/mole



LT-S9226

Benzylammonium iodide

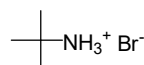
Grade : >99.5% , recrystallized 4 times
Formula : C_7H_9IN
M.W. : 235.07 g/mole



LT-S9227

t-Butylammonium bromide

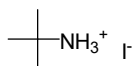
CAS No. : 60469-70-7
Grade : >99.5% , recrystallized 4 times
Formula : $C_4H_{12}BrN$
M.W. : 154.05 g/mole



LT-S9228

t-Butylammonium iodide

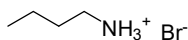
CAS No. : 39557-45-4
Grade : >99.5%, recrystallized 4 times
Formula : $C_4H_{12}IN$
M.W. : 201.05 g/mole



LT-S9229

n-Butylammonium bromide

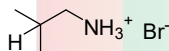
CAS No. : 15567-09-6
Grade : >99.5%, recrystallized 4 times
Formula : $C_4H_{12}BrN$
M.W. : 154.05 g/mole



LT-S9230

iso-Butylammonium bromide

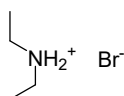
Grade : $C_4H_{12}BrN$
Formula : >99.5%, recrystallized 4 times
M.W. : 154.05 g/mole



LT-S9231

Diethylammonium bromide

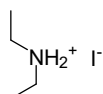
CAS No. : 6274-12-0
Grade : >99.5%, recrystallized 4 times
Formula : $C_4H_{12}BrN$
M.W. : 154.05 g/mole



LT-S9232

Diethylammonium iodide

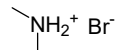
CAS No. : 19833-78-4
Grade : >99.5%, recrystallized 4 times
Formula : $C_4H_{12}IN$
M.W. : 201.05 g/mole



LT-S9233

Dimethylammonium bromide

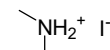
CAS No. : 6912-12-5
Grade : >99.5%, recrystallized 4 times
Formula : C_2H_8BrN
M.W. : 126 g/mole



LT-S9234

Dimethylammonium iodide

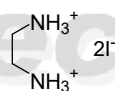
CAS No. : 51066-74-1
Grade : >99.5%, recrystallized 4 times
Formula : C_2H_8IN
M.W. : 173 g/mole



LT-S9235

Ethane 1,2 diammonium iodide

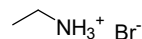
CAS No. : 5700-49-2
Grade : >99.5%, recrystallized 4 times
Formula : $C_2H_{10}I_2N_2$
M.W. : 315.92 g/mole



LT-S9236

Ethylammonium bromide

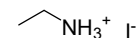
CAS No. : 593-55-5
Grade : >99.5%, recrystallized 4 times
Formula : C_2H_8BrN
M.W. : 125.99 g/mole



LT-S9237

Ethylammonium iodide

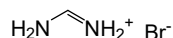
CAS No. : 506-58-1
Grade : >99.5%, recrystallized 4 times
Formula : C_2H_8IN
M.W. : 173 g/mole



LT-S9238

Formamidinium bromide

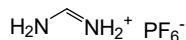
CAS No. : 146958-06-7
Grade : >99.5%, recrystallized 4 times
Formula : CH_5BrN_2
M.W. : 124.97 g/mole



LT-S9239

Formamidinium hexafluorophosphate

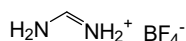
Grade : >99.5% , recrystallized 4 times
Formula : $\text{CH}_5\text{F}_6\text{N}_2\text{P}$
M.W. : 190.03 g/mole



LT-S9240

Formamidinium tetrafluoroborate

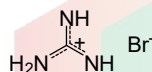
Grade : >99.5% , recrystallized 4 times
Formula : $\text{CH}_5\text{BF}_4\text{N}_2$
M.W. : 131.87 g/mole



LT-S9241

Guanidinium bromide

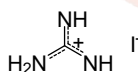
CAS No. : 19244-98-5
Grade : >99.5% , recrystallized 4 times
Formula : CH_6BrN_3
M.W. : 139.98 g/mole



LT-S9242

Guanidinium iodide

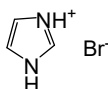
CAS No. : 19227-70-4
Grade : >99.5% , recrystallized 4 times
Formula : CH_6IN_3
M.W. : 186.98 g/mole



LT-S9243

Imidazolium bromide

CAS No. : 101023-55-6
Grade : >99.5% , recrystallized 4 times
Formula : $\text{C}_3\text{H}_5\text{BrN}_2$
M.W. : 148.99 g/mole



LT-S9244

Imidazolium iodide

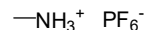
CAS No. : 68007-08-9
Grade : >99.5% , recrystallized 4 times
Formula : $\text{C}_3\text{H}_5\text{IN}_2$
M.W. : 195.99 g/mole



LT-S9245

Methylammonium hexafluorophosphate

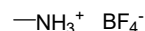
CAS No. : 28302-50-3
Grade : >99.5% , recrystallized 4 times
Formula : $\text{CH}_6\text{PF}_6\text{N}$
M.W. : 177.03 g/mole



LT-S9246

Methylammonium tetrafluoroborate

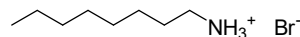
CAS No. : 42539-74-2
Grade : >99.5% , recrystallized 4 times
Formula : $\text{CH}_6\text{BF}_4\text{N}$
M.W. : 118.87 g/mole



LT-S9247

n-Octylammonium Bromide

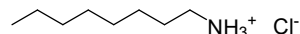
CAS No. : 14846-47-0
Grade : >99.5% , recrystallized 4 times
Formula : $\text{C}_8\text{H}_{20}\text{BrN}$
M.W. : 210.16 g/mole



LT-S9248

n-Octylammonium Chloride

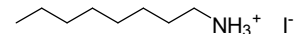
CAS No. : 142-95-0
Grade : >99.5% , recrystallized 4 times
Formula : $\text{C}_8\text{H}_{20}\text{ClN}$
M.W. : 165.7 g/mole



LT-S9249

n-Octylammonium Iodide

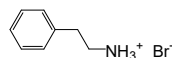
CAS No. : 60734-63-6
Grade : >99.5% , recrystallized 4 times
Formula : $\text{C}_8\text{H}_{20}\text{IN}$
M.W. : 257.16 g/mole



LT-S9250

Phenethylammonium bromide

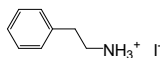
CAS No. : 53916-94-2
Grade : >99.5% , recrystallized 4 times
Formula : $\text{C}_8\text{H}_{12}\text{BrN}$
M.W. : 202.09 g/mole



LT-S9251

Phenethylammonium iodide

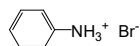
CAS No. : 151059-43-7
Grade : >99.5%, recrystallized 4 times
Formula : $C_8H_{12}IN$
M.W. : 249.09 g/mole



LT-S9252

Phenylammonium bromide

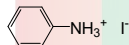
CAS No. : 542-11-0
Grade : >99.5%, recrystallized 4 times
Formula : C_6H_8BrN
M.W. : 174.04 g/mole



LT-S9253

Phenylammonium iodide

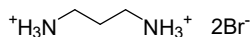
CAS No. : 45497-73-2
Grade : >99.5%, recrystallized 4 times
Formula : C_6H_8IN
M.W. : 221.04 g/mole



LT-S9254

Propane 1,3 diammonium bromide

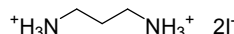
CAS No. : 18773-03-0
Grade : >99.5%, recrystallized 4 times
Formula : $C_3H_{12}Br_2N_2$
M.W. : 235.95 g/mole



LT-S9255

Propane 1,3 diammonium iodide

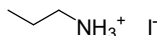
CAS No. : 120675-53-8
Grade : >99.5%, recrystallized 4 times
Formula : $C_3H_{12}I_2N_2$
M.W. : 329.95 g/mole



LT-S9256

n-Propylammonium iodide

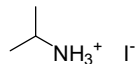
CAS No. : 14488-45-0
Grade : >99.5%, recrystallized 4 times
Formula : $C_3H_{10}IN$
M.W. : 187.02 g/mole



LT-S9257

iso-Propylammonium iodide

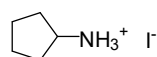
Grade : >99.5%, recrystallized 4 times
Formula : $C_3H_{10}IN$
M.W. : 187.02 g/mole



LT-S9258

Pyrrolidinium Iodide

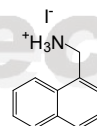
CAS No. : 45361-12-4
Grade : $C_4H_{10}IN$
Formula : 199.03 g/mole
M.W. :



LT-S9286

1-Naphthylmethylamine iodide

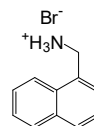
CAS No. : 256222-11-4
Grade : > 99%
Formula : $C_{11}H_{12}IN$
M.W. : 285.12 g/mole



LT-S9287

1-Naphthylmethylamine Bromide

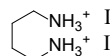
CAS No. : 217309-83-6
Grade : > 99%
Formula : $C_{11}H_{12}BrN$
M.W. : 238.12 g/mole



LT-S9300

Butane-1,4-diammonium iodide

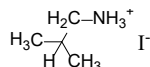
CAS No. : 916849-52-0
Grade : > 99%
Formula : $C_4H_{14}I_2N_2$
M.W. : 343.98 g/mole



LT-S9301

iso-Butylammonium iodide

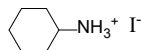
CAS No. : 205508-75-4
Grade : > 99%
Formula : $C_4H_{12}IN$
M.W. : 201.05 g/mole



LT-S9302

Cyclohexylammonium iodide

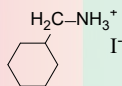
CAS No. : 45492-87-3
Grade : > 99%
Formula : $C_6H_{14}IN$
M.W. : 227.09 g/mole



LT-S9303

Cyclohexylmethylammonium iodide

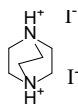
Grade : > 99%
Formula : $C_7H_{16}IN$
M.W. : 241.11 g/mole



LT-S9304

1,4-Diazabicyclo[2,2,2]octane-1,4-dium iodide

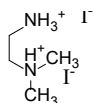
CAS No. : 33322-06-4
Grade : > 99%
Formula : $C_6H_{14}I_2N_2$
M.W. : 368 g/mole



LT-S9305

N,N-Dimethyl-1,2-ethanediammonium iodide

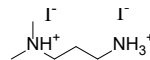
CAS No. : 244234-52-4
Grade : > 99%
Formula : $C_4H_{14}I_2N_2$
M.W. : 343.98 g/mole



LT-S9306

N,N-Dimethyl-1,3-propanediammonium iodide

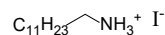
Grade : > 99%
Formula : $C_5H_{16}I_2N_2$
M.W. : 358 g/mole



LT-S9307

n-Dodecylammonium iodide

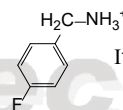
CAS No. : 34099-97-3
Grade : > 99%
Formula : $C_{12}H_{28}IN$
M.W. : 313.26 g/mole



LT-S9308

4-Fluoro-benzylammonium iodide

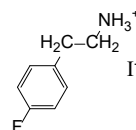
CAS No. : 2097121-30-5
Grade : > 99%
Formula : C_7H_9FIN
M.W. : 253.06 g/mole



LT-S9309

4-Fluoro-phenethylammonium iodide

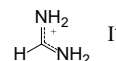
CAS No. : 1413269-55-2
Grade : > 99%
Formula : $C_8H_{11}FIN$
M.W. : 267.08 g/mole



LT-S9310

FORMAMIDINIUM IODIDE

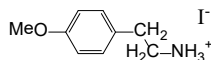
CAS No. : 879643-71-7
Grade : > 99%
Formula : CH_3IN_2
M.W. : 171.97 g/mole



LT-S9311

4-Methoxy-Phenethylammonium iodide

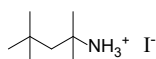
Grade : > 99%
Formula : $C_9H_{14}INO$
M.W. : 279.12 g/mole



LT-S9312

tert-Octylammonium iodide

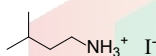
Grade : > 99%
Formula : $C_8H_{20}IN$
M.W. : 257.16 g/mole



LT-S9313

iso-Pentylammonium iodide

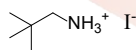
Grade : > 99%
Formula : $C_5H_{14}IN$
M.W. : 215.06 g/mole



LT-S9314

neo-Pentylammonium iodide

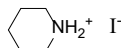
Grade : > 99%
Formula : $C_5H_{14}IN$
M.W. : 215.08 g/mole



LT-S9315

Piperidinium iodide

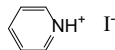
CAS No. : 21701-42-8
Grade : > 99%
Formula : $C_5H_{12}IN$
M.W. : 213.06 g/mole



LT-S9316

Pyridinium iodide

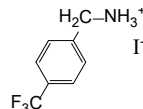
CAS No. : 18820-83-2
Grade : > 99%
Formula : C_5H_6IN
M.W. : 207.01 g/mole



LT-S9317

4-Trifluoromethyl-Benzylammonium iodide

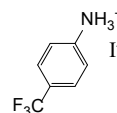
Grade : > 99%
Formula : $C_8H_9F_3IN$
M.W. : 303.06 g/mole



LT-S9318

4-Trifluoromethyl-Phenylammonium iodide

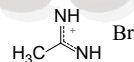
Grade : > 99%
Formula : $C_7H_7IF_3N$
M.W. : 289.04 g/mole



LT-S9319

Acetamidinium bromide

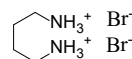
CAS No. : 1040352-82-6
Grade : > 99%
Formula : $C_2H_7BrN_2$
M.W. : 138.99 g/mole



LT-S9320

Butane-1,4-diammonium bromide

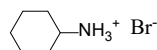
CAS No. : 18773-04-1
Grade : > 99%
Formula : $C_4H_{14}Br_2N_2$
M.W. : 249.98 g/mole



LT-S9321

Cyclohexylammonium bromide

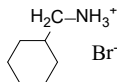
CAS No. : 26227-54-3
Grade : > 99%
Formula : $C_6H_{14}BrN$
M.W. : 180.09 g/mole



LT-S9322

Cyclohexylmethan ammonium bromide

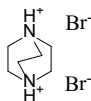
Grade : > 99%
Formula : $C_7H_{16}BrN$
M.W. : 194.11 g/mole



LT-S9323

1,4-Diazabicyclo[2,2,2]octane 1,4-dium bromide

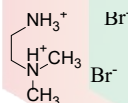
CAS No. : 54581-69-0
Grade : > 99%
Formula : $C_6H_{14}Br_2N_2$
M.W. : 274 g/mole



LT-S9324

N,N-Dimethylethane-1,2-ethanediammonium bromide

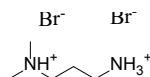
CAS No. : 1245570-04-0
Grade : > 99%
Formula : $C_4H_{14}Br_2N_2$
M.W. : 249.98 g/mole



LT-S9325

N,N-Dimethyl-1,3-propanediammonium bromide

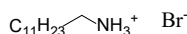
Grade : > 99%
Formula : $C_5H_{16}Br_2N_2$
M.W. : 264 g/mole



LT-S9326

n-Dodecylammonium bromide

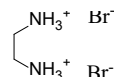
CAS No. : 26204-55-7
Grade : > 99%
Formula : $C_{12}H_{26}BrN$
M.W. : 266.26 g/mole



LT-S9327

Ethane-1,2-diammonium bromide

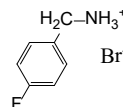
CAS No. : 624-59-9
Grade : > 99%
Formula : $C_2H_{10}Br_2N_2$
M.W. : 221.92 g/mole



LT-S9328

4-Fluoro-benzylammonium bromide

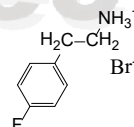
Grade : > 99%
Formula : C_7H_9FBrN
M.W. : 206.06 g/mole



LT-S9329

4-Fluoro-phenethylammonium bromide

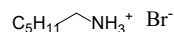
CAS No. : 1807536-06-6
Grade : > 99%
Formula : $C_8H_{11}BrFN$
M.W. : 220.08 g/mole



LT-S9330

n-Hexylammonium bromide

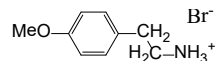
CAS No. : 7334-95-4
Grade : > 99%
Formula : $C_6H_{16}BrN$
M.W. : 182.1 g/mole



LT-S9331

4-Methoxy-Phenethylammonium bromide

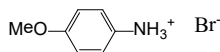
Grade : > 99%
Formula : $C_9H_{14}BrNO$
M.W. : 232.12 g/mole



LT-S9332

4-Methoxy-Phenylammonium bromide

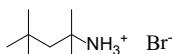
CAS No. : 116436-31-8
Grade : > 99%
Formula : $C_9H_{14}BrNO$
M.W. : 232.12 g/mole



LT-S9333

tert-Octylammonium bromide

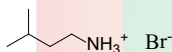
CAS No. : 1093859-61-0
Grade : > 99%
Formula : $C_8H_{20}BrN$
M.W. : 210.16 g/mole



LT-S9334

iso-Pentylammonium bromide

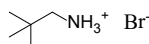
Grade : > 99%
Formula : $C_5H_{14}BrN$
M.W. : 168.08 g/mole



LT-S9335

neo-Pentylammonium bromide

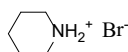
Grade : > 99%
Formula : $C_5H_{14}BrN$
M.W. : 168.08 g/mole



LT-S9336

Piperidinium bromide

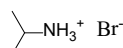
CAS No. : 14066-85-4
Grade : > 99%
Formula : $C_5H_{12}BrN$
M.W. : 166.06 g/mole



LT-S9337

iso-Propylammonium bromide

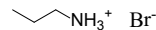
CAS No. : 29552-58-7
Grade : > 99%
Formula : $C_3H_{10}BrN$
M.W. : 140.02 g/mole



LT-S9338

n-Propylammonium bromide

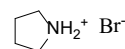
CAS No. : 4905-83-3
Grade : > 99%
Formula : $C_3H_{10}BrN$
M.W. : 140.02 g/mole



LT-S9339

Pyrrolidinium bromide

CAS No. : 55810-80-5
Grade : > 99%
Formula : $C_4H_{10}BrN$
M.W. : 152.03 g/mole



LT-S9340

Quinuclidin-1-ium bromide

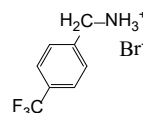
CAS No. : 60662-68-2
Grade : > 99%
Formula : $C_7H_{14}BrN$
M.W. : 192.1 g/mole



LT-S9341

4-Trifluoromethyl-Benzylammonium bromide

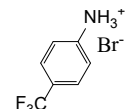
Grade : > 99%
Formula : $C_8H_9F_3BrN$
M.W. : 256.06 g/mole



LT-S9342

4-Trifluoromethyl-Phenylammonium bromide

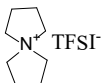
Grade : > 99%
Formula : $C_7H_7BrF_3N$
M.W. : 242.03 g/mole



LT-S9343

5-Azasp[4.4]non-5-iumbis(trifluoromethane)sulfonimide

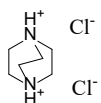
CAS No. : 706759-44-6
Grade : > 99%
Formula : $C_{10}H_{16}F_6N_2O_4S_2$
M.W. : 406.37 g/mole



LT-S9344

1,4-Diazabicyclo[2.2.2]octane-1,4-dium chloride

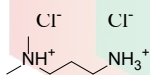
CAS No. : 49563-87-3
Grade : > 99%
Formula : $C_6H_{14}Cl_2N_2$
M.W. : 185.09 g/mole



LT-S9345

N,N-Dimethyl-1,3-propanediammonium chloride

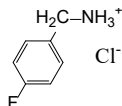
CAS No. : 52198-63-7
Grade : > 99%
Formula : $C_5H_{16}Cl_2N_2$
M.W. : 175.1 g/mole



LT-S9346

4-Fluoro-Benzylammonium chloride

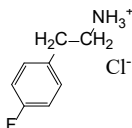
CAS No. : 659-41-6
Grade : > 99%
Formula : C_7H_9FCIN
M.W. : 161.6 g/mole



LT-S9347

4-Fluoro-Phenethylammonium chloride

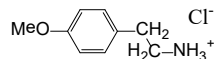
CAS No. : 459-19-8
Grade : > 99%
Formula : $C_8H_{11}ClFN$
M.W. : 175.63 g/mole



LT-S9348

4-Methoxy-Phenethylammonium chloride

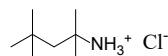
CAS No. : 645-58-9
Grade : > 99%
Formula : $C_9H_{14}ClNO$
M.W. : 187.67 g/mole



LT-S9349

tert-Octylammonium chloride

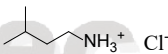
CAS No. : 58618-91-0
Grade : > 99%
Formula : $C_8H_{20}ClN$
M.W. : 165.7 g/mole



LT-S9350

iso-Pentylammonium chlor

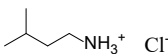
Grade : > 99%
Formula : $C_5H_{14}ClN$
M.W. : 123.62 g/mole



LT-S9351

neo-Pentylammonium chloride

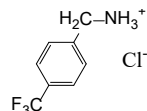
CAS No. : 15925-18-5
Grade : > 99%
Formula : $C_5H_{14}ClN$
M.W. : 123.62 g/mole



LT-S9352

4-Trifluoromethyl-Benzylammonium chloride

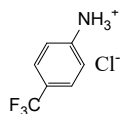
CAS No. : 3047-99-2
Grade : > 99%
Formula : $C_8H_9F_3ClN$
M.W. : 211.61 g/mole



LT-S9353

4-Trifluoromethyl-Phenylammonium chloride

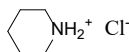
CAS No. : 90774-69-9
 Grade : > 99%
 Formula : $C_7H_7ClF_3N$
 M.W. : 197.59 g/mole



LT-S9354

Piperidinium chloride

CAS No. : 6091-44-7
 Grade : > 99%
 Formula : $C_5H_{12}ClN$
 M.W. : 121.61 g/mole



LT-S9355

Propane-1,3-diammonium chloride

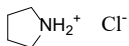
CAS No. : 10517-44-9
 Grade : > 99%
 Formula : $C_3H_{12}Cl_2N_2$
 M.W. : 147.05 g/mole



LT-S9356

Pyrrolidinium chloride

CAS No. : 25150-61-2
 Grade : > 99%
 Formula : $C_4H_{10}ClN$
 M.W. : 107.58 g/mole



LT-S9357

Quinuclidin-1-ium chloride

CAS No. : 39896-06-5
 Grade : > 99%
 Formula : $C_7H_{14}ClN$
 M.W. : 147.65 g/mole



LT-S9358

Methylammonium cyate

CAS No. : 63405-91-4
 Grade : > 99%
 Formula : $C_2H_6N_2O$
 M.W. : 74.08 g/mole
 $-NH_3^+ \quad OCN^-$

LT-S9359

5-Azasp[iro[4.4]non-5-ium tetrafluoroborate

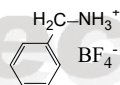
CAS No. : 129211-47-8
 Grade : > 99%
 Formula : $C_8H_{16}BF_4N$
 M.W. : 213.02 g/mole



LT-S9360

Benzylammonium tetrafluoroborate

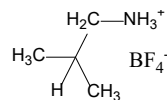
CAS No. : 41579-49-1
 Grade : > 99%
 Formula : $C_7H_{10}BF_4N$
 M.W. : 194.97 g/mole



LT-S9361

iso-Butylammonium tetrafluoroborate

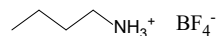
CAS No. : 71852-72-7
 Grade : > 99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9362

n-Butylammonium tetrafluoroborate

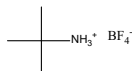
CAS No. : 71852-73-8
 Grade : > 99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9363

t-Butylammonium tetrafluoroborate

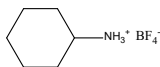
CAS No. : 24418-92-6
Grade : > 99%
Formula : $C_4H_{12}BF_4N$
M.W. : 160.95 g/mole



LT-S9364

Cyclohexylammonium tetrafluoroborate

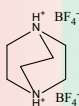
CAS No. : 71893-43-1
Grade : > 99%
Formula : $C_6H_{14}BF_4N$
M.W. : 186.99 g/mole



LT-S9365

1,4-Diazabicyclo[2,2,2]octane-1,4-dium tetrafluoroborate

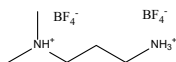
Grade : > 99%
Formula : $C_6H_{14}B_2F_8N_2$
M.W. : 160.95 g/mole



LT-S9366

N,N-Dimethyl-1,3-propanediammonium tetrafluoroborate

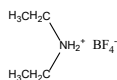
Grade : > 99%
Formula : $C_5H_{16}B_2F_8N_2$
M.W. : 277.8 g/mole



LT-S9367

Diethylammonium tetrafluoroborate

CAS No. : 17085-33-5
Grade : > 99%
Formula : $C_4H_{12}BF_4N$
M.W. : 160.95 g/mole



LT-S9368

Dimethylammonium tetrafluoroborate

CAS No. : 16970-97-1
Grade : > 99%
Formula : $C_2H_8BF_4N$
M.W. : 132.9 g/mole



LT-S9369

Dimethylammonium tetrafluoroborate

Grade : > 99%
Formula : $C_2H_{10}B_2F_8N_2$
M.W. : 235.72 g/mole



LT-S9370

Ethylammonium tetrafluoroborate

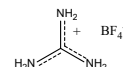
CAS No. : 12070-78-9
Grade : > 99%
Formula : $C_2H_8BF_4N$
M.W. : 132.9 g/mole



LT-S9371

Guanidinium tetrafluoroborate

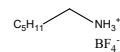
CAS No. : 36595-00-3
Grade : > 99%
Formula : $CH_6BF_4N_3$
M.W. : 146.88 g/mole



LT-S9372

n-Hexylammonium tetrafluoroborate

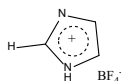
CAS No. : 41579-47-9
Grade : > 99%
Formula : $C_6H_{16}BF_4N$
M.W. : 378.01 g/mole



LT-S9373

Imidazolium tetrafluoroborate

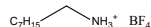
CAS No. : 112725-76-5
 Grade : > 99%
 Formula : $C_3H_5BF_4N_2$
 M.W. : 155.89 g/mole



LT-S9374

n-Octylammonium tetrafluoroborate

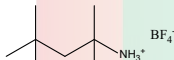
CAS No. : 790269-39-5
 Grade : > 99%
 Formula : $C_8H_{20}BF_4N$
 M.W. : 217.06 g/mole



LT-S9375

tert-Octylammonium tetrafluoroborate

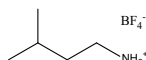
Grade : > 99%
 Formula : $C_8H_{20}BF_4N$
 M.W. : 217.06 g/mole



LT-S9376

iso-Pentylammonium tetrafluoroborate

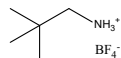
CAS No. : 150178-33-9
 Grade : > 99%
 Formula : $C_5H_{14}BF_4N$
 M.W. : 174.97 g/mole



LT-S9377

neo-Pentylammonium tetrafluoroborate

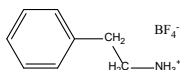
Grade : > 99%
 Formula : $C_5H_{14}BF_4N$
 M.W. : 174.98 g/mole



LT-S9378

Phenethylammonium tetrafluoroborate

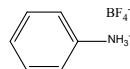
Grade : > 99%
 Formula : $C_8H_{12}BF_4N$
 M.W. : 208.99 g/mole



LT-S9379

Phenylammonium tetrafluoroborate

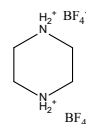
CAS No. : 3796-29-0
 Grade : > 99%
 Formula : $C_6H_8BF_4N$
 M.W. : 180.94 g/mole



LT-S9380

Piperazine-1,4-dium tetrafluoroborate

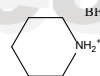
Grade : > 99%
 Formula : $C_4H_{12}B_2F_8N_2$
 M.W. : 261.76 g/mole



LT-S9381

Piperidinium tetrafluoroborate

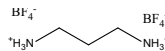
CAS No. : 20935-77-7
 Grade : > 99%
 Formula : $C_5H_{12}BF_4N$
 M.W. : 172.96 g/mole



LT-S9382

Propane-1,3-diammonium tetrafluoroborate

Grade : > 99%
 Formula : $C_3H_{12}B_2F_8N_2$
 M.W. : 249.75 g/mole



LT-S9383

iso-Propylammonium tetrafluoroborate

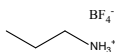
CAS No. : 71852-74-9
 Grade : > 99%
 Formula : $C_3H_{10}BF_4N$
 M.W. : 146.92 g/mole



LT-S9384

n-Propylammonium tetrafluoroborate

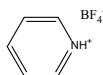
CAS No. : 71852-75-0
Grade : > 99%
Formula : $C_3H_{10}BF_4N$
M.W. : 146.92 g/mole



LT-S9385

Pyridinium tetrafluoroborate

CAS No. : 505-07-7
Grade : > 99%
Formula : $C_5H_6BF_4N$
M.W. : 166.91 g/mole



LT-S9386

Pyrrolidinium tetrafluoroborate

CAS No. : 95647-26-0
Grade : > 99%
Formula : $C_4H_{10}BF_4N$
M.W. : 158.93 g/mole



LT-S9387

Quinuclidin-1-ium tetrafluoroborate

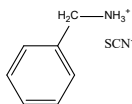
CAS No. : 936025-25-1
Grade : > 99%
Formula : $C_7H_{14}BF_4N$
M.W. : 199 g/mole



LT-S9388

Benzylammonium thiocyanate

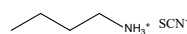
CAS No. : 51571-89-2
Grade : > 99%
Formula : $C_8H_{10}N_2S$
M.W. : 166.24 g/mole



LT-S9389

n-Butylammonium thiocyanate

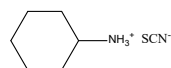
CAS No. : 25162-84-9
Grade : > 99%
Formula : $C_5H_{12}N_2S$
M.W. : 132.23 g/mole



LT-S9390

n-Butylammonium thiocyanate

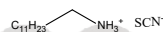
CAS No. : 96943-17-8
Grade : > 99%
Formula : $C_7H_{14}N_2S$
M.W. : 158.26 g/mole



LT-S9391

n-Dodecylammonium thiocyanate

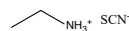
CAS No. : 22031-31-8
Grade : > 99%
Formula : $C_{13}H_{28}N_2S$
M.W. : 244.44 g/mole



LT-S9392

Ethylammonium thiocyanate

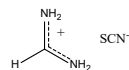
CAS No. : 25153-19-9
Grade : > 99%
Formula : $C_3H_8N_2S$
M.W. : 104.17 g/mole



LT-S9393

Formamidinium thiocyanate

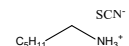
CAS No. : 1821033-48-0
Grade : > 99%
Formula : CH_5N_3S
M.W. : 103.15 g/mole



LT-S9394

n-Hexylammonium thiocyanate

CAS No. : 25162-85-0
Grade : > 99%
Formula : $C_7H_{16}N_2S$
M.W. : 160.28 g/mole



LT-S9395

Methylammonium thiocyanate

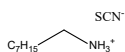
CAS No. : 61540-63-4
Grade : > 99%
Formula : $C_2H_6N_2S$
M.W. : 90.15 g/mole



LT-S9396

n-Octylammonium thiocyanate

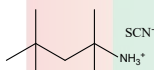
CAS No. : 25162-86-1
Grade : > 99%
Formula : $C_9H_{20}N_2S$
M.W. : 188.33 g/mole



LT-S9397

tert-Octylammonium thiocyanate

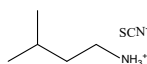
CAS No. : 41115-58-6
Grade : > 99%
Formula : $C_9H_{20}N_2S$
M.W. : 188.33 g/mole



LT-S9398

iso-Pentylammonium thiocyanate

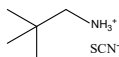
Grade : > 99%
Formula : $C_6H_{14}N_2S$
M.W. : 146.25 g/mole



LT-S9399

neo-Pentylammonium thiocyanate

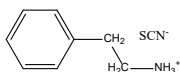
CAS No. : 61540-71-4
Grade : > 99%
Formula : $C_6H_{14}N_2S$
M.W. : 146.25 g/mole



LT-S9400

Phenethylammonium thiocyanate

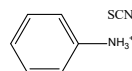
Grade : > 99%
Formula : $C_9H_{12}N_2S$
M.W. : 180.27 g/mole



LT-S9401

Phenylammonium thiocyanate

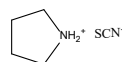
CAS No. : 27248-14-2
Grade : > 99%
Formula : $C_7H_8N_2S$
M.W. : 152.22 g/mole



LT-S9402

Pyrrolidinium thiocyanate

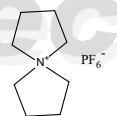
CAS No. : 217309-80-3
Grade : > 99%
Formula : $C_5H_{10}N_2S$
M.W. : 130.21 g/mole



LT-S9403

5-Azaspiro[4.4]non-5-ium hexafluorophosphate

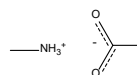
CAS No. : 129211-50-3
Grade : > 99%
Formula : $C_8H_{16}F_6NP$
M.W. : 271.18 g/mole



LT-S9404

Methylammonium acetate

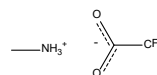
CAS No. : 6998-30-7
Grade : > 99%
Formula : $C_3H_7NO_2$
M.W. : 92.12 g/mole



LT-S9405

Methylammonium trifluoroacetate

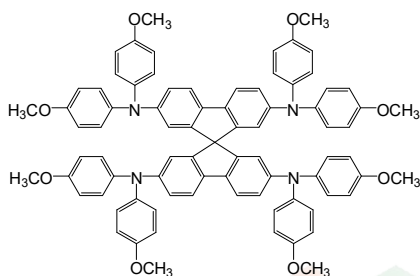
CAS No. : 107326-29-4
Grade : > 99%
Formula : $C_3H_7F_3NO_2$
M.W. : 146.09 g/mole



LT-S922 Spiro-MeOTAD

2,2',7,7'-Tetrakis(*N,N*-di-*p*-methoxyphenylamino)-9,9'-spirobifluorene

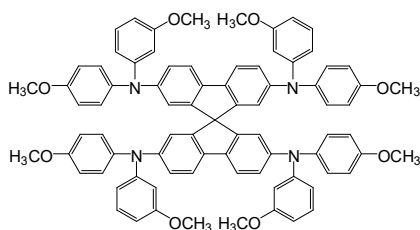
CAS No. : 207739-72-8
 Grade : > 99.5% (HPLC)
 Formula : $C_{81}H_{68}N_4O_8$
 M.W. : 1225.43 g/mole
 UV : 306, 385 nm (in CH_2Cl_2)
 PL : 429 nm (in CH_2Cl_2)
 TGA : > 360 °C (0.5% weight loss)
 Reference : 1. MRS. BULLETIN, 30, 2005, p23
 2. Appl. Phys. Lett. 100, 173512 (2012)



LT-S9145 p,m-Spiro-MeOTAD

*N*²,*N*²,*N*⁷,*N*⁷-Tetrakis(3-methoxyphenyl)-*N*²,*N*²,*N*⁷,*N*⁷-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

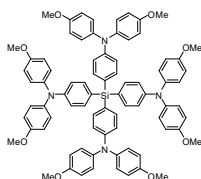
CAS No. : 1573202-44-4
 Grade : > 99% (HPLC)
 Formula : $C_{81}H_{68}N_4O_8$
 M.W. : 1225.43 g/mole
 UV : 308, 378 nm (in CH_2Cl_2)
 PL : 414 nm (in CH_2Cl_2)
 TGA : > 280 °C (0.5% weight loss)
 Reference : J. Am. Chem. Soc. 2014, 136, 7837-7840



LT-S9290 Si-OMeTPA

4,4',4'',4'''-silanetetrayltetrakis(*N,N*-bis(4-methoxyphenyl)aniline)

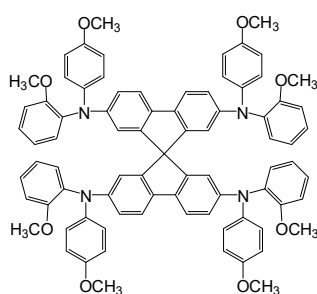
Grade : > 99% (HPLC)
 Formula : $C_{80}H_{72}N_4O_8Si$
 M.W. : 1245.54 g/mole
 HOMO : -5.39 eV
 LUMO : -1.96 eV



LT-S9146 p,o-Spiro-MeOTAD

*N*²,*N*²,*N*⁷,*N*⁷-Tetrakis(2-methoxyphenyl)-*N*²,*N*²,*N*⁷,*N*⁷-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

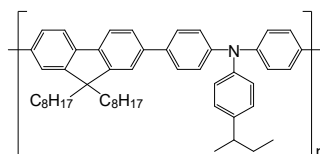
CAS No. : 1628961-22-7
 Grade : > 98.5% (HPLC)
 Formula : $C_{81}H_{68}N_4O_8$
 M.W. : 1225.43 g/mole
 UV : 316, 375 nm (in CH_2Cl_2)
 PL : 418 nm (in CH_2Cl_2)
 TGA : > 280 °C (0.5% weight loss)
 Reference : J. Am. Chem. Soc. 2014, 136, 7837-7840



LT-N148 TFB

Poly[(9,9-dioctylfluorenyl)-2,7-diyl]-co-(4,4'-(*N*-(4-*sec*-butylphenyl)diphenylamine)]

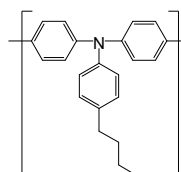
CAS No. : 220797-16-0
 Grade : $M_w > 30,000$ (GPC)
 Formula : $(C_{51}H_{51}N)_n$
 UV : 389 nm (in CH_2Cl_2)
 PL : 443 nm (in CH_2Cl_2)
 Solubility : Soluble in CH_2Cl_2 , Toluene, $CHCl_3$



LT-N149 Poly-TPD

Poly[*N,N'*-bis(4-butylphenyl)-*N,N'*-bis(phenyl)-benzidine]

CAS No. : 472960-35-3
 Grade : $M_w > 10,000$ (GPC)
 Formula : $(C_{22}H_{21}N)_n$
 UV : 371, 388 nm (in CH_2Cl_2)
 PL : 424 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene
 Reference : Nature Photonics 8, 128-132 (2014)

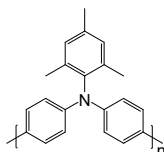


LT-N168 | PTAA

Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine]

CAS No. : 1333317-99-9
 Grade : $M_w > 10,000$ (GPC)
 Formula : $(C_{21}H_{19}N)_n$
 UV : 371, 388 nm (in CH_2Cl_2)
 PL : 424 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene

Reference : *Nature Photonics* 7, 486-491 (2013)

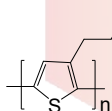


LT-S909 | P3HT

Poly(3-hexylthiophene-2,5-diyl)

CAS No. : 104934-50-1
 Grade : $M_w > 45,000$ (GPC)
 Regioregular Electronic Grade > 93%
 Formula : $(C_{10}H_{14}S)_n$
 UV : 445 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene

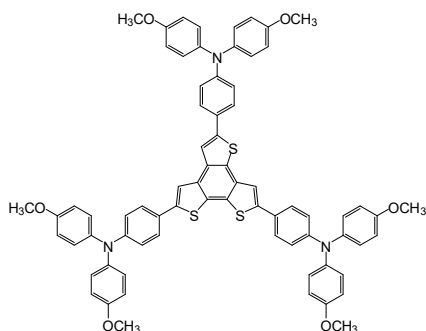
Reference : *Journal of Power Sources*, 251, (2014), 152-156



LT-S9276 | BTT-4

2,5,8-Tris(4-(bis(4-methoxyphenyl)amino)phenyl)benzotrithiophene

CAS No. : 1908506-93-3
 Formula : $C_{72}H_{57}N_3O_6S_3$
 M.W. : 1156.43 g/mole



LT-PS001 | PEDOT:PSS

Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)

Specification

Description : Aqueous dispersion, blue liquid.
 Sodium : Max. 400 ppm
 Sulfate : Max. 40 ppm
 Solid content : 1.3 - 1.7 wt%
 PSD d_{50} : 80 nm
 PSD d_{90} : 100 nm
 Resistivity : 500-5000 Ωcm
 Viscosity : 5-12 mPas

Technical Data (guide values, not a specification)

Form : liquid
 Odour : odourless
 Colour : dark blue
 PEDOT:PSS ratio : 1:6 (by weight)
 PEDOT work function : approx 5.2 eV
 pH : 1.2 - 2.2 at 20°C
 Boiling Point : approx 100°C

Storage : The product is sensitive to frost and should therefore not be stored at temperatures below 5°C.

Avoid freezing!



LT-S9127 | FK209 Co(III) TFSI Salt

Tris(2-(1*H*-pyrazol-1-yl)-4-*tert*-butylpyridine)-cobalt(III) tris(bis(trifluoromethylsulfonyl)imide)

CAS No. : 1447938-61-5

Grade : > 99% (NMR)

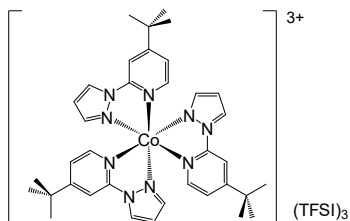
Formula : $C_{42}H_{45}CoF_{18}N_{12}O_{12}S_6$

M.W. : 1503.18 g/mole

UV : 227, 287 nm (in Acetonitrile)

Reference : 1. *J. Mater. Chem. A*, 2013, 1, 11842-11847

2. *J. Am. Chem. Soc.*, 2013, 135 (51), pp 19087-19090



LT-S9135 | FK102 Co(III) PF₆ Salt

Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(III) tris(hexafluorophosphate)

CAS No. : 1346416-70-3

Grade : > 99% (NMR)

Formula : $C_{24}H_{21}CoF_{18}N_9P_3$

M.W. : 929.31 g/mole

UV : 215, 292 nm (in Acetonitrile)

Reference : *J. Am. Chem. Soc.* 2011, 133, 18042-18045

