Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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Технические характеристики на прекурсоры для осаждения раствора, соли высокой чистоты компании Sigma-Aldrich

Виды товаров: соли металлов, щелочные соли, соли щелочных металлов, соли драгоценных металлов, редкоземельные соли, галоидные соли, кислые соли, прекурсоры для осаждения раствора, прекурсоры химического осаждения из паровой фазы (CVD)/прекурсоры атомно-слоевого осаждения (ALD), прекурсоры физического осаждения из паровой фазы и др.

High-Purity Salts

We provide a broad spectrum of high-purity salts, both anhydrous and hydrated, ranging from 99.9% to 99.999% purity as measured by inductively coupled plasma mass spectrometry (ICP-MS) or inductively coupled plasma optical emission spectrometry (ICP-OES). Our comprehensive salt portfolio includes:

- Metal salts
- Alkali salts
- Alkaline metal salts
- Precious metal salts
- Rare earth salts
- Halide salts
- Acid salts

Typically, these high-purity ionic compounds are utilized as salt precursors in demanding solid state synthesis processes such as **sol-gel** and co-precipitation, as well as in precision nanoparticle synthesis such as in chemical reduction and solvothermal methods. Additional applications of our premium salts range from use as **catalysts** in chemical manufacturing to electrolyte mixtures for battery components.

ULTRA-HIGH PURITY SALTS

High-purity materials are essential to conducting research, developing new technologies, and producing advanced products that demand excellent performance and quality. Our portfolio includes salts with an ultra-high purity level of over 99.998%, and less than 10 parts per million trace metal impurities. Our **ISO 9001 quality management system** ensures high batch-to-batch consistency with available batch-specific **certificates of analysis (CoA)** for dependable and reliable performance.

ANHYDROBEADS™ SALTS

Our AnhydroBeads™ salts provide superior performance in air- and moisture-sensitive applications due to their high-purity, monodisperse, and free-flowing properties. These anhydrous salts are developed and tested under stringent dry manufacturing conditions to ensure water content at the parts-per-million scale, trace metal purity of 99.9% (3N) to 99.999% (5N), and low surface area-to-volume ratio (~2 mm in diameter).

Keep your work flowing with AnhydroBeads™ salts!

- Reduced uptake rate of environmental moisture minimizes caking, dusting, and static buildup for repeated easy handling
- Higher crucible packing densities and lower volatility in high-temperature solid state procedures
- Easier pneumatic loading of salts to sample chambers due to less clogging issues associated with powdered salt counterparts

REDI-DRI™ SALTS

Our Redi-Dri™ salts provide superior performance for moisture-sensitive applications due to very high-quality standards and ease of handling. Our innovative packaging system prevents absorption of environmental moisture by anhydrous and hydroscopic salts during transport and chemical storage, eliminating clumping and caking and preserving the compounds' quality assured, free-flowing properties. In addition, Redi-Dri™ offers a convenient resealable storage container as an easier and safer replacement for single-use packaging like ampules.

Keep your work flowing with our Free flowing Redi-Dri™ Salts!

- Longer shelf-life, free flowing without addition of anti-caking agents reduces the waste.
- Slower absorption of environmental moisture
- Conveniently resealable storage container in contrast to ampule
- When compared to clumped materials, faster dissolution of Redi-Dri™ salts reduces waiting time and improves lab productivity.

TECHNIPUR™ PRODUCTS FOR INDUSTRY

Our Technipur™ grade provides specialty products for technical applications, along with supply-chain security and transparency, consistent quality, and enhanced documentation. Our extensive portfolio of fit-for-use products for industries is designed to meet those needs.

We offer:

Large sized prepacks tailored to your needs

Scalable supply chain for your manufacturing needs

Inventory availability maintained for rapid delivery

Quality and documentation support

210072
Aluminum bromide
powder and chunks, ≥98%

449601
Aluminum bromide
anhydrous, powder, 99.999% trace metals basis

401218
Aluminum bromide
≥99.99% trace metals basis

294713
Aluminum chloride
99.99% trace metals basis

563919
Aluminum chloride
anhydrous, powder, 99.999% trace metals basis

449598
Aluminum chloride
anhydrous, powder, 99.99% trace metals basis

229393
Aluminum chloride hydrate
99.999% trace metals basis

449628
Aluminum fluoride
anhydrous, powder, 99.8% trace metals basis

409324
Aluminum iodide
anhydrous, powder, 99.999% trace metals basis

208493
Aluminum iodide
technical grade, 95%

430633
Aluminum L-lactate
95%

229415
Aluminum nitrate nonahydrate
99.997% trace metals basis

930954
Aluminum nitrate nonahydrate
99.99% (trace metals basis)

255963
Aluminum phosphate
99.99% trace metals basis

341452
Aluminum phosphate
reagent grade

202614
Aluminum sulfate
99.99% trace metals basis

450308
Aluminum sulfate hydrate
99.99% trace metals basis

372331
Ammonium acetate
99.999% trace metals basis

A4380
Ammonium biborate tetrahydrate
98.9-101.2% B_2O_3 basis

467731
Ammonium bromide
≥99.99% trace metals basis

380008
Ammonium bromide
99.999% trace metals basis

292834
Ammonium carbamate
99%

229547
Ammonium cerium(IV) nitrate
≥99.99% trace metals basis

221759
Ammonium cerium(IV) sulfate dihydrate

254134
Ammonium chloride
99.998% trace metals basis

326372
Ammonium chloride
99.99% trace metals basis

497363
Ammonium cobalt(II) sulfate hexahydrate
99%

204005
Ammonium dihydrogenphosphate
99.999% trace metals basis

338869
Ammonium fluoride
≥99.99% trace metals basis

516961
Ammonium formate
≥99.995% trace metals basis

216593
Ammonium hexafluorophosphate
99.98% trace metals basis

457183
Ammonium hexafluorostannate
≥99.99% trace metals basis

204749
Ammonium hexafluorotitanate
99.99% trace metals basis

455849
Ammonium hydrogensulfate
99.99% trace metals basis

203467
Ammonium iodide
99.999% trace metals basis

203505
Ammonium iron(II) sulfate hexahydrate
99.997% trace metals basis

529354
Ammonium magnesium phosphate hydrate

99.997% trace metals basis

204846
Ammonium metavanadate
99.95% trace metals basis

277908
Ammonium molybdate
99.98% trace metals basis

A1827
Ammonium nickel(II) sulfate hexahydrate
≥98%

A1827
Ammonium nickel(II) sulfate hexahydrate
≥98%

525839
Ammonium niobate(V) oxalate hydrate
99.99% trace metals basis

256064
Ammonium nitrate
99.999% trace metals basis

379743
Ammonium oxalate monohydrate
≥99.99% trace metals basis

906034
Ammonium pentaborate octahydrate

A4505
Ammonium pentaborate tetrahydrate
≥99%

316954
Ammonium perrhenate
≥99%

204161
Ammonium perrhenate
99.999% trace metals basis

379980

Ammonium phosphate dibasic
≥99.99% trace metals basis

342165
Ammonium phosphomolybdate hydrate

S9506
Ammonium sodium phosphate dibasic tetrahydrate
≥99%

204501
Ammonium sulfate
99.999% trace metals basis

541893
Ammonium tetrafluoroborate
99.999% trace metals basis

223727
Ammonium tetrafluoroborate
≥97%

323446
Ammonium tetrathiomolybdate
99.97% trace metals basis

336726
Ammonium thiosulfate
98%

464597
Ammonium zirconium(IV) carbonate solution
in H_2O, contains 1-2% tartaric acid as stabilizer

337374
Antimony(III) chloride
≥99.95% trace metals basis

381292
Antimony(III) fluoride
powder, 99.8% trace metals basis

401188
Antimony(III) iodide
98%

10783
Antimony(III) sulfate
≥95.0%

338877
Antimony(V) chloride
≥99.99% trace metals basis

215171
Antimony(V) chloride
99%

200077
Arsenic(III) chloride
99.99% trace metals basis

413607
Barium bromide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

202711
Barium carbonate
99.999% trace metals basis

329436
Barium carbonate
99.98% trace metals basis

449644
Barium chloride
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

202738
Barium chloride
99.999% trace metals basis

449652
Barium chloride
AnhydroBeads™, −10 mesh, 99.95% trace metals basis

342920
Barium chloride
99.9% trace metals basis

529591
Barium chloride dihydrate
≥99.999% trace metals basis

652458
Barium fluoride
precipitated, 99.95% trace metals basis

202746
Barium fluoride
99.99% trace metals basis

433373
Barium hydroxide
technical grade, ~95%

450170
Barium hydroxide hydrate
99.995% trace metals basis

413615
Barium iodide
AnhydroBeads™, −10 mesh, 99.995% trace metals basis

223808
Barium iodide dihydrate
≥95%

210196
Barium manganate
technical grade, 90%

654981
Bismuth(III) bromide
anhydrous, powder, 99.998% trace metals basis

654981
Bismuth(III) bromide
anhydrous, powder, 99.998% trace metals basis

470279
Bismuth(III) chloride
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

254142
Bismuth(III) chloride

99.99% trace metals basis

450723
Bismuth(III) chloride
anhydrous, powder, 99.998% trace metals basis

401528
Bismuth(III) fluoride
≥99.99% trace metals basis

229474
Bismuth(III) iodide
≥99.998% trace metals basis

307610
Bismuth(III) oxychloride
98%

289140
Cadmium carbonate
powder, 98%

655198
Cadmium chloride
technical grade

202908
Cadmium chloride
99.99% trace metals basis

529575
Cadmium chloride hydrate
99.995% trace metals basis

208299
Cadmium chloride hydrate
98%

228516
Cadmium iodide
99%

20910
Cadmium iodide
purum p.a., ≥99.0% (T)

229520
Cadmium nitrate tetrahydrate
99.997% trace metals basis

642045
Cadmium nitrate tetrahydrate
98%

401374
Cadmium perchlorate hydrate

529567
Cadmium perchlorate hydrate
99.999% trace metals basis

481882
Cadmium sulfate
≥99.99% trace metals basis

202924
Cadmium sulfate hydrate
≥99.995% trace metals basis

413631
Calcium bromide
AnhydroBeads™, −10 mesh, 99.98% trace metals basis

449709
Calcium chloride
AnhydroBeads™, −10 mesh, ≥99.9% trace metals basis

499609
Calcium chloride
anhydrous, powder, 99.99% trace metals basis

429759
Calcium chloride
AnhydroBeads™, −10 mesh, ≥99.99% trace metals basis

442909
Calcium chloride hexahydrate
≥95%

202940
Calcium chloride hydrate

99.999% trace metals basis

438928
Calcium cyanamide
technical grade

378801
Calcium fluoride
random crystals, optical grade, 99.99% trace metals basis

449717
Calcium fluoride
anhydrous, powder, 99.99% trace metals basis

450146
Calcium hydroxide
99.995% trace metals basis

341606
Calcium iodate
98%

516244
Calcium iodide
AnhydroBeads™, −10 mesh, 99.95% trace metals basis

590703
Calcium iodide
99%

439797
Calcium iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

202967
Calcium nitrate hydrate
99.997% trace metals basis

289841
Calcium oxalate hydrate

401420
Calcium perchlorate tetrahydrate
99%

C8017
Calcium phosphate monobasic
≥95%

C5267
Calcium phosphate tribasic
34.0-40.0% Ca basis

255696
Calcium sulfate
≥99.99% trace metals basis

520144
Calcium thiocyanate tetrahydrate
95%

563226
Cerium(III) bromide
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

325503
Cerium(III) carbonate hydrate
99.9% trace metals basis

429406
Cerium(III) chloride
AnhydroBeads™, −10 mesh, ≥99.99% trace metals basis

298190
Cerium(III) chloride
AnhydroBeads™, −10 mesh, 99.9%

228931
Cerium(III) chloride heptahydrate
99.9% trace metals basis

202983
Cerium(III) chloride heptahydrate
99.999% trace metals basis

229555
Cerium(III) fluoride
anhydrous, powder, 99.99% trace metals basis

466085

Cerium(III) iodide
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

238538
Cerium(III) nitrate hexahydrate
99% trace metals basis

392219
Cerium(III) nitrate hexahydrate
99.99% trace metals basis

202991
Cerium(III) nitrate hexahydrate
99.999% trace metals basis

325511
Cerium(III) oxalate hydrate
99.9% trace metals basis

574201
Cerium(III) sulfate
≥99.99% trace metals basis

203009
Cerium(III) sulfate octahydrate
99.999% trace metals basis

316970
Cerium(IV) hydroxide

202142
Cesium bromide
99.9% trace metals basis

203017
Cesium bromide
99.999% trace metals basis

429392
Cesium bromide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

554855
Cesium carbonate
99.95% trace metals basis

562599
Cesium chloride
99.99% trace metals basis

203025
Cesium chloride
≥99.999% trace metals basis

449733
Cesium chloride
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

C3139
Cesium chloride
optical grade, ≥99.5% trace metals basis

255718
Cesium fluoride
99.99% trace metals basis

433764
Cesium formate
98%

C8518
Cesium hydroxide hydrate
≥90%, ≥99.5% (metals basis)

516988
Cesium hydroxide monohydrate
99.95% trace metals basis

562505
Cesium hydroxide monohydrate
≥99.5% trace metals basis

232068
Cesium hydroxide solution
50 wt. % in H_2O, 99% trace metals basis

232041
Cesium hydroxide solution
50 wt. % in H_2O, 99.9% trace metals basis

202134
Cesium iodide
99.9% trace metals basis

203033
Cesium iodide
99.999% trace metals basis

429384
Cesium iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

562521
Cesium nitrate
Cabot high-purity grade

203041
Cesium nitrate
99.999% trace metals basis

289337
Cesium nitrate
99%

202150
Cesium nitrate
99.99% trace metals basis

401277
Cesium oxalate
≥99.9% trace metals basis

230030
Cesium sulfate
99.99% trace metals basis

450782
Chromium(II) chloride
anhydrous, powder, 99.99% trace metals basis

244805
Chromium(II) chloride
95%

762873

Chromium(II) chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

200050
Chromium(III) chloride
purified by sublimation, 99%

450790
Chromium(III) chloride
anhydrous, 99.99% trace metals basis

288179
Chromium(III) chloride tetrahydrofuran complex (1:3)
97%

333387
Chromium(III) fluoride tetrahydrate
97%

379972
Chromium(III) nitrate nonahydrate
≥99.99% trace metals basis

342432
Chromium(III) sulfate hydrate
for synthesis

200042
Chromyl chloride
≥99.99% trace metals basis

334022
Cobalt(II) bromide
99%

427136
Cobalt(II) bromide
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

379956
Cobalt(II) carbonate hydrate

≥99.99% trace metals basis

409332
Cobalt(II) chloride
AnhydroBeads™, −10 mesh, 99.995% trace metals basis

449776
Cobalt(II) chloride
AnhydroBeads™, −10 mesh, 99.9% trace metals basis

769495
Cobalt(II) chloride hexahydrate
≥97%

203084
Cobalt(II) chloride hydrate
99.999% trace metals basis

342440
Cobalt(II) hydroxide
technical grade, 95%

203106
Cobalt(II) nitrate hexahydrate
99.999% trace metals basis

401285
Cobalt(II) oxalate dihydrate

401404
Cobalt(II) perchlorate hexahydrate

544140
Cobalt(II) phosphate hydrate

229598
Cobalt(II) sulfate hydrate
99.998% trace metals basis

216135
Cobalt(II) thiocyanate
96%

497274
Cobalt(II) thiocyanate
99.9% trace metals basis

236136
Cobalt(III) fluoride

209317
Copper chromite

254185
Copper(I) bromide
99.999% trace metals basis

735906
Copper(I) bromide
AnhydroBeads™, -10 mesh, 99.99% trace metals basis

229628
Copper(I) chloride
≥99.995% trace metals basis

651745
Copper(I) chloride
AnhydroBeads™, ≥99.99% trace metals basis

215554
Copper(I) iodide
99.999% trace metals basis

792063
Copper(I) iodide
anhydrous, 99.995% trace metals basis

510653
Copper(I) sulfide
anhydrous, powder, 99.99% trace metals basis

298212
Copper(I) thiocyanate
99%

437867
Copper(II) bromide

99.999% trace metals basis

203149
Copper(II) chloride
99.999% trace metals basis

451665
Copper(II) chloride
anhydrous, powder, ≥99.995% trace metals basis

751944
Copper(II) chloride
powder, 99%

459097
Copper(II) chloride dihydrate
99.999%

344419
Copper(II) D-gluconate
98%

217905
Copper(II) fluoride
98%

289787
Copper(II) hydroxide
technical grade

467855
Copper(II) nitrate hemi(pentahydrate)
ACS reagent, ≥99.99% trace metals basis

923079
Copper(II) nitrate hydrate
≥99.99% trace metals basis

229636
Copper(II) nitrate hydrate
99.999% trace metals basis

215392
Copper(II) perchlorate hexahydrate
98%

344699
Copper(II) pyrophosphate hydrate

451657
Copper(II) sulfate
anhydrous, powder, ≥99.99% trace metals basis

203165
Copper(II) sulfate pentahydrate
99.999% trace metals basis

469130
Copper(II) sulfate pentahydrate
99.995% trace metals basis

514071
Copper(II) tartrate hydrate
99.9% trace metals basis

366587
Copper(II) tetrafluoroborate hydrate

224308
Dilithium tetrachlorocuprate(II) solution
0.1 M in THF

325546
Dysprosium(III) chloride
anhydrous, powder, 99.99% trace metals basis

289272
Dysprosium(III) chloride hexahydrate
99.9% trace metals basis

450847
Dysprosium(III) fluoride
anhydrous, powder, ≥99.98% trace rare earth metals basis

298158
Dysprosium(III) nitrate hydrate
99.9% trace metals basis

449792
Erbium(III) chloride
anhydrous, powder, 99.9% trace metals basis

203211
Erbium(III) chloride hexahydrate
99.995% trace metals basis
289256
Erbium(III) chloride hexahydrate
99.9% trace metals basis

298166
Erbium(III) nitrate pentahydrate
99.9% trace metals basis

444111
Erbium(III) perchlorate solution
40 wt. % in H_2O, 99.9% trace metals basis

431850
Europium(II) chloride
99.99% trace metals basis

751499
Europium(II) iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

474770
Europium(II) iodide
anhydrous, powder, 99.9% trace metals basis

575259
Europium(III) bromide hydrate
≥99.99% trace metals basis

429732
Europium(III) chloride
anhydrous, powder, 99.99% trace metals basis

238066
Europium(III) chloride
powder, ≥99.9% trace metals basis

203254
Europium(III) chloride hexahydrate
99.99% trace metals basis

212881
Europium(III) chloride hexahydrate

99.9% trace metals basis

254061
Europium(III) nitrate hydrate
99.99% trace metals basis

207918
Europium(III) nitrate pentahydrate
99.9% trace metals basis

175102
Fluoroantimonic acid
purified by triple-distillation

439770
Gadolinium(III) chloride
anhydrous, powder, 99.99% trace metals basis

203289
Gadolinium(III) chloride hexahydrate
99.999% trace metals basis

G7532
Gadolinium(III) chloride hexahydrate
99% (titration)

450855
Gadolinium(III) chloride hydrate
99.99% trace metals basis

211591
Gadolinium(III) nitrate hexahydrate
crystals and lumps, 99.9% trace metals basis

217190
Gadolinium(III) nitrate hexahydrate
crystals and lumps, 99.999% trace metals basis

451134
Gadolinium(III) nitrate hexahydrate
99.99% trace metals basis

575143
Gadolinium(III) sulfate
≥99.99% trace metals basis

203300
Gadolinium(III) sulfate octahydrate
≥99.99% trace metals basis

450863
Gallium(III) bromide
anhydrous, powder, 99.999% trace metals basis

381357
Gallium(III) bromide
99.999%

399116
Gallium(III) iodide
99.99% trace metals basis

229644
Gallium(III) nitrate hydrate
crystals and lumps, 99.999% trace metals basis

289892
Gallium(III) nitrate hydrate
crystalline, 99.9% trace metals basis

574090
Gallium(III) perchlorate hydrate
99.999% trace metals basis

254207
Gallium(III) sulfate
99.99% trace metals basis

572659
Germanium(II) bromide
97%

573515
Germanium(II) chloride dioxane complex (1:1)

383260
Germanium(II) iodide
≥99.8% trace metals basis

383252
Germanium(IV) iodide
99.99% trace metals basis

258202
Hafnium(IV) chloride
98%

590592
Hafnium(IV) chloride
purified by sublimation, 99.9% trace metals basis

229652
Hafnium(IV) oxychloride hydrate
99.99% trace metals basis (purity excludes zirconium)

481521
Hexaamminecobalt(III) chloride
99%

450901
Holmium(III) chloride
anhydrous, powder, 99.9% trace metals basis

289213
Holmium(III) chloride hexahydrate
99.9% trace metals basis

325732
Holmium(III) nitrate pentahydrate
99.9% trace metals basis

229687
Holmium(III) nitrate pentahydrate
99.99% trace metals basis

443875
Holmium(III) perchlorate solution
40 wt. % in H_2O, 99.9% trace metals basis

652288
Hydrotalcite, synthetic

574791
Hydroxyapatite
synthetic, 99.8% trace metals basis (excludes Mg)

289396

Hydroxyapatite
reagent grade, powder, synthetic

578606
Indium(I) iodide
anhydrous, powder, 99.999% trace metals basis

413658
Indium(I) iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

548456
Indium(II) chloride
99.9% trace metals basis

545082
Indium(III) bromide
99.999% trace metals basis

308285
Indium(III) bromide
99%

429414
Indium(III) chloride
anhydrous, powder, ≥99.999% trace metals basis

334065
Indium(III) chloride
98%

203440
Indium(III) chloride
99.999% trace metals basis

334073
Indium(III) chloride tetrahydrate
97%

435848
Indium(III) fluoride
≥99.9% trace metals basis

413666
Indium(III) iodide
anhydrous, powder, 99.998% trace metals basis

326127
Indium(III) nitrate hydrate
99.99% trace metals basis

326135
Indium(III) nitrate hydrate
99.9% trace metals basis

254215
Indium(III) nitrate hydrate
99.999% trace metals basis

57151
Indium(III) sulfate
anhydrous, ≥98.0% (T)

288721
Indium(III) sulfate hydrate
99.99% trace metals basis

434000
Iron(II) bromide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

450936
Iron(II) chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

450944
Iron(II) chloride
AnhydroBeads™, −10 mesh, 99.9% trace metals basis

429368
Iron(II) chloride
AnhydroBeads™, −10 mesh, 99.998% trace metals basis

380024
Iron(II) chloride tetrahydrate
99.99% trace metals basis

307726
Iron(II) oxalate dihydrate
99%

334081
Iron(II) perchlorate hydrate
98%

450278
Iron(II) sulfate hydrate
99.999% trace metals basis

401668
Iron(II) tetrafluoroborate hexahydrate
97%

217883
Iron(III) bromide
98%

451649
Iron(III) chloride
anhydrous, powder, ≥99.99% trace metals basis

701122
Iron(III) chloride
sublimed grade, ≥99.9% trace metals basis

F6129
Iron(III) citrate
technical grade

288659
Iron(III) fluoride
46.5-50.7% Fe (by Na_2SO_3, titration)

529303
Iron(III) nitrate nonahydrate
≥99.999% trace metals basis

381446
Iron(III) oxalate hexahydrate

436038
Iron(III) phosphate tetrahydrate

P6526
Iron(III) pyrophosphate
soluble crystals

241857
Lanthanum hexaboride
powder, 10 µm, 95%

449822
Lanthanum(III) bromide
AnhydroBeads™, −10 mesh, ≥99.99% trace metals basis

325767
Lanthanum(III) carbonate hydrate
99.9% trace metals basis

298182
Lanthanum(III) chloride
AnhydroBeads™, −10 mesh, 99.9% trace metals basis

449830
Lanthanum(III) chloride
AnhydroBeads™, −10 mesh, ≥99.99% trace metals basis

203521
Lanthanum(III) chloride heptahydrate
99.999% trace metals basis

211605
Lanthanum(III) chloride hydrate
99.9% trace metals basis

449857
Lanthanum(III) fluoride
anhydrous, powder, 99.99% trace metals basis

447226
Lanthanum(III) hydroxide
99.9% trace metals basis

413674
Lanthanum(III) iodide
AnhydroBeads™, −10 mesh, 99.9% trace metals basis

331937
Lanthanum(III) nitrate hexahydrate
99.99% trace metals basis

203548
Lanthanum(III) nitrate hexahydrate
99.999% trace metals basis

238554
Lanthanum(III) nitrate hydrate
99.9% trace metals basis

461024
Lanthanum(III) oxalate hydrate
99.99% trace metals basis

575208
Lanthanum(III) sulfate
≥99.99% trace metals basis

398853
Lead(II) bromide
99.999% trace metals basis

211141
Lead(II) bromide
≥98%

243582
Lead(II) carbonate basic
−325 mesh

449865
Lead(II) chloride
AnhydroBeads™, −10 mesh, 99.999%

268690
Lead(II) chloride
powder, 98%

203572
Lead(II) chloride
99.999% trace metals basis

236152
Lead(II) fluoride
powder, ≥99%

229725
Lead(II) fluoride
99.99% trace metals basis

554359
Lead(II) iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

211168
Lead(II) iodide
99%

203602
Lead(II) iodide
99.999% trace metals basis

203580
Lead(II) nitrate
99.999% trace metals basis

307734
Lead(II) sulfate
98%

254258
Lead(II) sulfate
99.995% trace metals basis

480525
Lithium azide solution
20 wt. % in H_2O

229733
Lithium bromide
powder and chunks, ≥99.995% trace metals basis

449873
Lithium bromide
AnhydroBeads™, −10 mesh, ≥99.9% trace metals basis

429465
Lithium bromide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

451754
Lithium bromide hydrate
99.999% trace metals basis

931942
Lithium carbonate
battery grade, ≥99.9% trace metals basis

203629
Lithium carbonate
99.997% trace metals basis

431559
Lithium carbonate
99.99% trace metals basis

752843
Lithium carbonate
99.999% trace metals basis

916013
Lithium chloride
anhydrous, 99.95% trace metals basis

429457
Lithium chloride
AnhydroBeads™, −10 mesh, 99.998% trace metals basis

203637
Lithium chloride
powder, ≥99.98% trace metals basis

916013
Lithium chloride
anhydrous, 99.95% trace metals basis

298328
Lithium chloride hydrate
≥99.99% trace metals basis

449903
Lithium fluoride
≥99.99% trace metals basis

203645
Lithium fluoride
powder, <100 µm, ≥99.98% trace metals basis

237965

Lithium fluoride
powder, -300 mesh

669431
Lithium fluoride
Precipitated, 99.995%

442690
Lithium formate monohydrate
98%

308315
Lithium hexafluoroarsenate(V)
98%

201146
Lithium hexafluorophosphate
98%

450227
Lithium hexafluorophosphate
battery grade, ≥99.99% trace metals basis

920371
Lithium hexafluorophosphate
99.9% trace metals basis

254274
Lithium hydroxide monohydrate
99.95% trace metals basis

450197
Lithium hydroxide monohydrate
99.995% trace metals basis

930903
Lithium hydroxide monohydrate
battery grade, ≥99.9% trace metals basis

443964
Lithium iodate
97%

218219
Lithium iodide
AnhydroBeads™, 99%

518018
Lithium iodide
99.9% trace metals basis

450952
Lithium iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

439746
Lithium iodide
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

482277
Lithium manganese(III,IV) oxide
electrochemical grade

254282
Lithium metaborate
99.995% trace metals basis

205524
Lithium metaborate
99.9% trace metals basis

365297
Lithium metaborate dihydrate

400904
Lithium molybdate
99.9% trace metals basis

930938
Lithium nitrate
battery grade, anhydrous, 99.999% trace metals basis

930946
Lithium nitrate
battery grade, anhydrous, ≥99.9% trace metals basis

431567
Lithium perchlorate

99.99% trace metals basis

931969
Lithium perchlorate
anhydrous, ≥99.9% trace metals basis

338893
Lithium phosphate

442682
Lithium phosphate monobasic
99%

920339
Lithium sulfate
anhydrous, 99.5% trace metals basis

62613
Lithium sulfate
purum p.a., ≥98.0% (T)

203653
Lithium sulfate
≥99.99% trace metals basis

L6375
Lithium sulfate
≥98.5% (titration)

704393
Lithium tantalate
≥99.99%

254304
Lithium tetraborate
≥99.995% trace metals basis

244767
Lithium tetrafluoroborate
98%

451622
Lithium tetrafluoroborate
ultra dry, powder, 99.99% trace metals basis

308374
Lithium thiocyanate hydrate

450960
Lutetium(III) chloride
anhydrous, powder, 99.99% trace metals basis

542075
Lutetium(III) chloride hexahydrate
≥99.99% trace metals basis

542067
Lutetium(III) nitrate hydrate
99.999% trace metals basis

436429
Lutetium(III) nitrate hydrate
99.9% trace metals basis

495093
Magnesium bromide
anhydrous, powder, ≥99.99%

216844
Magnesium bromide hexahydrate
99%

M5671
Magnesium carbonate hydroxide pentahydrate
BioXtra

394297
Magnesium fluoride
technical grade

343188
Magnesium fluoride
pieces, 3-6 mm, 99.9% trace metals basis (excluding Na)

378836
Magnesium fluoride

random crystals, optical grade, ≥99.99% trace metals basis

394599
Magnesium iodide
98%

203696
Magnesium nitrate hexahydrate
99.999% trace metals basis

309303
Magnesium perchlorate hexahydrate
99%

344702
Magnesium phosphate hydrate

203726
Magnesium sulfate
≥99.99% trace metals basis

434183
Magnesium sulfate monohydrate
97%

223646
Manganese(II) bromide
98%

208434
Manganese(II) bromide tetrahydrate
98%

377449
Manganese(II) carbonate
≥99.9% trace metals basis

63539
Manganese(II) carbonate hydrate
44-46% Mn basis (KT)

450995
Manganese(II) chloride
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

429449
Manganese(II) chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

244589
Manganese(II) chloride
powder and chunks, ≥99% trace metals basis

771619
Manganese(II) fluoride
≥99.95% trace metals basis

339288
Manganese(II) fluoride
98%

439738
Manganese(II) iodide
anhydrous, 99.99% trace metals basis

203742
Manganese(II) nitrate hydrate
99.99% trace metals basis

288640
Manganese(II) nitrate hydrate
98%

359386
Manganese(II) perchlorate hydrate
99%

229784
Manganese(II) sulfate hydrate
≥99.99% trace metals basis

339296
Manganese(III) fluoride
99.9% trace metals basis

208353
Molybdenum(V) chloride
95%

642452
Molybdenum(V) chloride

anhydrous, powder, 99.99% trace metals basis (excluding W)

373710
Molybdenum(VI) dichloride dioxide

449946
Neodymium(III) chloride
anhydrous, powder, ≥99.99% trace metals basis

289183
Neodymium(III) chloride hexahydrate
99.9% trace metals basis

449954
Neodymium(III) fluoride
anhydrous, powder, 99.99% trace metals basis

587109
Neodymium(III) hydroxide
99.995% trace metals basis

289175
Neodymium(III) nitrate hexahydrate
99.9% trace metals basis

325813
Neodymium(III) sulfate hydrate
99.9% trace metals basis

544183
Nickel carbonate, basic hydrate
99.9% trace metals basis

72225
Nickel(II) acetate tetrahydrate
purum p.a., ≥99.0% (KT)

449156
Nickel(II) bromide
anhydrous, powder, ≥99.99% trace metals basis

217891
Nickel(II) bromide
98%

561142

Nickel(II) bromide
anhydrous, powder, ≥99.9% trace metals basis

459674
Nickel(II) bromide 2-methoxyethyl ether complex

406341
Nickel(II) bromide ethylene glycol dimethyl ether complex
97%

233730
Nickel(II) bromide hydrate
98%

72243
Nickel(II) bromide trihydrate
98% (AT)

339776
Nickel(II) carbonate hydroxide tetrahydrate

283622
Nickel(II) hydroxide

400777
Nickel(II) iodide
powder

203874
Nickel(II) nitrate hexahydrate
99.999% trace metals basis

309338
Nickel(II) perchlorate hexahydrate

262277
Nickel(II) sulfamate tetrahydrate
98%

326356
Niobium(III) chloride 1,2-dimethoxyethane complex

326364
Niobium(IV) chloride tetrahydrofuran complex

510696
Niobium(V) chloride
anhydrous, powder, 99.995% trace metals basis

215791
Niobium(V) chloride
99%

336602
Niobium(V) chloride
≥99.9% trace metals basis

316997
Niobium(V) fluoride
98%

298301
Pentaamminechlorocobalt(III) chloride
98%

455970
Phosphotungstic acid hydrate
99.995% trace metals basis (Purity excludes up to 300 ppm Si)

230057
Potassium antimony(III) tartrate hydrate
99.95% trace metals basis

401544
Potassium bisulfate
≥99.99% trace metals basis

438472
Potassium borohydride
99.9% trace metals basis

451010
Potassium bromide
anhydrous, powder, 99.95% trace metals basis

449962
Potassium bromide
anhydrous, powder, 99.999% trace metals basis

367877
Potassium carbonate
99.995% trace metals basis

590681
Potassium carbonate
anhydrous, powder, 99.99% trace metals basis

409316
Potassium chloride
99.999% trace metals basis

204099
Potassium chloride
≥99.99% trace metals basis

451029
Potassium chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

449989
Potassium chloride
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

311006
Potassium chromium(III) oxalate trihydrate
98%

435821
Potassium fluorosulfate

366595
Potassium hexachlororhenate(IV)
99.99% trace metals basis

935492
Potassium hexachlororuthenate(IV)
powder, 99.99% trace metals basis

455989
Potassium hexacyanoferrate(II) trihydrate
≥99.95% trace metals basis

455946

Potassium hexacyanoferrate(III)
99.98% trace metals basis

238007
Potassium hexafluoroantimonate(V)
99%

515973
Potassium hexafluorophosphate
99.5% trace metals basis

200913
Potassium hexafluorophosphate
≥99%

P4308
Potassium hexahydroxoantimonate(V)

757551
Potassium hydroxide
anhydrous, ≥99.95% trace metals basis

438464
Potassium iodate
99.995% trace metals basis

204102
Potassium iodide
≥99.99% trace metals basis

429422
Potassium iodide
AnhydroBeads™, −10 mesh, 99.998% trace metals basis

217654
Potassium manganate

431052
Potassium metavanadate
98%

308390
Potassium molybdate
98%

204110
Potassium nitrate
99.99% trace metals basis

542040
Potassium nitrate
99.999% trace metals basis

60604
Potassium p-toluenethiosulfonate
≥97.0% (S)

460494
Potassium perchlorate
≥99.99% trace metals basis

229822
Potassium perrhenate
99.98% trace metals basis

243590
Potassium perrhenate
99%

379824
Potassium persulfate
99.99% trace metals basis

450200
Potassium phosphate dibasic
99.95% trace metals basis

229806
Potassium phosphate monobasic
99.99% trace metals basis

322431
Potassium pyrophosphate
97%

483699
Potassium selenocyanate
ReagentPlus®, ≥99%

216186
Potassium selenocyanate

reagent grade, 97%

462799
Potassium stannate trihydrate
99.9% trace metals basis

204129
Potassium sulfate
99.99% trace metals basis

400580
Potassium tellurate hydrate

P5754
Potassium tetraborate tetrahydrate
ReagentPlus®, ≥99.5%

925098
Potassium tetrachloroplatinate(II)
Technipur®, ≥99.9% trace metals basis

415154
Potassium tetracyanonickelate(II) hydrate

455903
Potassium tetrafluoroborate
≥99.99% trace metals basis

278955
Potassium tetrafluoroborate
96%

P2926
Potassium tetrathionate

298298
Praseodymium(III) chloride
anhydrous, powder, 99.99% trace metals basis

205141
Praseodymium(III) chloride hydrate
99.9% trace metals basis

205133

Praseodymium(III) nitrate hexahydrate
99.9% trace metals basis

309184
Rhenium(III) chloride

309192
Rhenium(V) chloride

336149
Rubidium bromide
99.6% trace metals basis

251437
Rubidium carbonate
99.8% trace metals basis

289310
Rubidium carbonate
99% (trace metals analysis)

R2252
Rubidium chloride
ReagentPlus®, ≥99.0% (metals basis)

204250
Rubidium chloride
99.95% trace metals basis

215260
Rubidium chloride
99.8% trace metals basis

251429
Rubidium fluoride
99.8% trace metals basis

401293
Rubidium hydroxide hydrate

243892
Rubidium hydroxide solution
50 wt. % in H_2O, 99.9% trace metals basis

251445

Rubidium iodide
99.9% trace metals basis

289299
Rubidium nitrate
99.7% trace metals basis

204269
Rubidium nitrate
99.95% trace metals basis

935484
Ruthenium(III) chloride
anhydrous, powder, 99.99% trace metals basis

409340
Samarium(II) iodide
anhydrous, powder, ≥99.9% trace metals basis

400610
Samarium(III) chloride
anhydrous, powder, 99.9% trace rare earth metals basis

204277
Samarium(III) chloride hexahydrate
≥99.99% trace metals basis

248800
Samarium(III) chloride hexahydrate
≥99%

298123
Samarium(III) nitrate hexahydrate
99.9% trace metals basis

518247
Samarium(III) nitrate hexahydrate
99.999% trace metals basis

409359
Scandium(III) chloride
anhydrous, powder, 99.9% trace metals basis

451266
Scandium(III) chloride
anhydrous, powder, 99.99% trace metals basis

451274
Scandium(III) chloride hexahydrate
99.999% trace metals basis

432105
Scandium(III) fluoride
anhydrous, powder, 99.99% trace metals basis

325902
Scandium(III) nitrate hydrate
99.9% trace metals basis

323527
Selenium tetrachloride

924008
Silver bromide
≥99.999% trace metals basis

924024
Silver bromide
≥99.9% trace metals basis

924016
Silver bromide
≥99.99% trace metals basis

925063
Silver carbonate
Technipur®, ≥99% trace metals basis

204404
Silver iodide
99.999% trace metals basis

769517
Sodium (meta)periodate
≥99%

935700
Sodium acetate trihydrate
≥99.9% trace metals basis

769320

Sodium azide
≥99%, ultra dry

229881
Sodium bromide
≥99.99% trace metals basis

451614
Sodium carbonate
anhydrous, powder, 99.999% trace metals basis

577782
Sodium carbonate decahydrate
99.999% trace metals basis

450006
Sodium chloride
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

204439
Sodium chloride
99.999% trace metals basis

378860
Sodium chloride
random crystals, optical grade, 99.9% trace metals basis

215309
Sodium fluoride
99.99% trace metals basis

344443
Sodium fluorophosphate
95%

456020
Sodium formate
99.998% trace metals basis

230049
Sodium hexafluoroaluminate
99.98% trace metals basis

305499
Sodium hexafluoroaluminate
97%

237981
Sodium hexafluoroantimonate(V)
technical grade

208965
Sodium hexafluoroferrate(III)

208051
Sodium hexafluorophosphate
98%

307823
Sodium hydrogen sulfate
technical grade

769339
Sodium hydrogen sulfate monohydrate
≥99% (T)

495905
Sodium hydrogencyanamide
98%

757527
Sodium hydroxide
ultra dry, powder or crystals, 99.99% trace metals basis

439681
Sodium iodide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

409286
Sodium iodide
99.999% trace metals basis

229911
Sodium iodide
≥99.99% trace metals basis

S0251
Sodium metaborate tetrahydrate
≥99%

72060

Sodium metavanadate
≥98.0% (RT)

737860
Sodium molybdate
anhydrous, powder, −100 mesh particle size, 99.9% trace metals basis

379735
Sodium oxalate
≥99.99% trace metals basis

371432
Sodium percarbonate
avail. H_2O_2 20-30 %

931950
Sodium perchlorate
anhydrous, ≥99.9% trace metals basis

381225
Sodium perchlorate hydrate
99.99% trace metals basis

519073
Sodium permanganate solution
40 wt. % in H_2O

380989
Sodium perrhenate
99.99% trace metals basis

342483
Sodium phosphate
96%

255793
Sodium phosphate dibasic
99.95% trace metals basis

496626
Sodium phosphotungstate hydrate
≥99.9% trace metals basis

P6395
Sodium phosphotungstate octadecahydrate

P8135
Sodium pyrophosphate dibasic
practical grade

P8010
Sodium pyrophosphate tetrabasic
≥95%

336262
Sodium stannate trihydrate
95%

204447
Sodium sulfate
≥99.99% trace metals basis

451584
Sodium tetrachloroaluminate
anhydrous, powder, 99.99% trace metals basis

S0764
Sodium thiophosphate tribasic hydrate
≥90%

563188
Sodium thiosulfate
≥99.99% trace metals basis

380016
Sodium thiosulfate pentahydrate
99.999% trace metals basis

430684
Strontium bromide
anhydrous, powder, 99.995% trace metals basis

472018
Strontium carbonate
≥99.9% trace metals basis

204455
Strontium carbonate
99.995% trace metals basis

289833
Strontium carbonate
≥98%

439665
Strontium chloride
anhydrous, powder, ≥99.99% trace metals basis

204463
Strontium chloride hexahydrate
99.995% trace metals basis

480371
Strontium ferrite
powder, 99.5%

450030
Strontium fluoride
anhydrous, powder, 99.9% trace metals basis

433608
Strontium hydroxide
94%

463752
Strontium hydroxide octahydrate
99.995% trace metals basis

415219
Strontium hydroxide octahydrate
95%

466336
Strontium iodide
anhydrous, ≥99.99% trace metals basis

204498
Strontium nitrate
99.995% trace metals basis

400475
Tantalum(V) chloride
99.99% trace metals basis

218634
Tantalum(V) chloride
99.8% trace metals basis

510688
Tantalum(V) chloride
anhydrous, powder, 99.999% trace metals basis

317004
Tantalum(V) fluoride
98%

205338
Tellurium tetrachloride
99%

451304
Terbium(III) chloride
anhydrous, powder, 99.99% trace metals basis

439657
Terbium(III) chloride
anhydrous, powder, 99.9% trace metals basis

204560
Terbium(III) chloride hexahydrate
99.999% trace metals basis

212903
Terbium(III) chloride hexahydrate
99.9% trace metals basis

217212
Terbium(III) nitrate hexahydrate
99.999% trace metals basis

325945
Terbium(III) nitrate pentahydrate
99.9% trace metals basis

325953
Terbium(III) sulfate octahydrate
99.9% trace metals basis

342327
Tetraamminecopper(II) sulfate monohydrate
98%

250228
Tetrabutylammonium perrhenate
98%

242144
Tetraethylammonium tetrafluoroborate
99%

336270
Thallium(I) bromide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

333212
Thallium(I) carbonate
99.9% trace metals basis

224898
Thallium(I) chloride
99%

229962
Thallium(I) chloride
99.999% trace metals basis

229970
Thallium(I) iodide
99.999% trace metals basis

916447
Thallium(I) iodide
AnhydroBeads™, ~10 mesh, 99.999% trace metals basis

309230
Thallium(I) nitrate
99.9% trace metals basis

208191
Thallium(I) sulfate
≥99.9% trace metals basis

204668
Thulium(III) chloride hexahydrate
99.99% trace metals basis

309257

Tin(II) bromide

466352
Tin(II) iodide
−10 mesh, 99.999% trace metals basis

409308
Tin(II) iodide
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

344966
Tin(II) pyrophosphate
98%

409294
Tin(IV) iodide
anhydrous, powder, 99.999% trace metals basis

458449
Titanium(IV) iodide
anhydrous, powder, 99.99% trace metals basis

495379
Titanium(IV) oxysulfate solution
~15 wt. % in dilute sulfuric acid, 99.99% trace metals basis

T5508
Trisodium trimetaphosphate
≥95%

263974
Tungsten(IV) chloride
95%

241911
Tungsten(VI) chloride
≥99.9% trace metals basis

645168
Tungsten(VI) chloride
powder, ≥99.99% trace metals basis (purity excludes molybdenum)

383198
Tungsten(VI) dichloride dioxide
99%

399108
Tungsten(VI) fluoride
≥99.9%

265012
Tungsten(VI) oxychloride
98%

422371
Vanadium(II) chloride
85%

208272
Vanadium(III) chloride
97%

395382
Vanadium(III) chloride tetrahydrofuran complex (1:3)
97%

204862
Vanadium(IV) oxide sulfate hydrate
≥99.99% trace metals basis

233706
Vanadium(IV) oxide sulfate hydrate
97%

200891
Vanadium(V) oxychloride
99%

494372
Ytterbium(II) iodide
powder, ≥99.9% trace metals basis

450073
Ytterbium(III) chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

439614
Ytterbium(III) chloride
anhydrous, powder, 99.9%

337927
Ytterbium(III) chloride hexahydrate
99.9% trace metals basis

204870
Ytterbium(III) chloride hexahydrate
99.998% trace metals basis

432121
Ytterbium(III) fluoride
anhydrous, powder, 99.98% trace metals basis

209147
Ytterbium(III) nitrate pentahydrate
99.9% trace metals basis

217220
Ytterbium(III) nitrate pentahydrate
99.999%

769525
Yttrium fluoride
granular, ≤1 mm

930962
Yttrium(III) acetate tetrahydrate
99.99% trace rare earth metals basis

450103
Yttrium(III) chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

450103
Yttrium(III) chloride
AnhydroBeads™, −10 mesh, 99.99% trace metals basis

204919
Yttrium(III) chloride hexahydrate
99.999% trace metals basis

211648
Yttrium(III) chloride hexahydrate
99.9% trace metals basis

464317
Yttrium(III) chloride hexahydrate
99.99% trace metals basis

237957
Yttrium(III) nitrate hexahydrate
99.8% trace metals basis

331309
Yttrium(III) nitrate tetrahydrate
99.99% trace metals basis

217239
Yttrium(III) nitrate tetrahydrate
99.999% trace metals basis

451398
Zinc bromide
AnhydroBeads™, −10 mesh, 99.999% trace metals basis

230022
Zinc bromide
99.999% trace metals basis

546739
Zinc bromide dihydrate
99%

429430
Zinc chloride
anhydrous, powder, ≥99.995% trace metals basis

229997
Zinc chloride
99.999% trace metals basis

450111
Zinc chloride
AnhydroBeads™, amorphous, −10 mesh, 99.99% trace metals basis

456845
Zinc chloride
AnhydroBeads™, amorphous, −10 mesh, 99.999% trace metals basis

480762
Zinc citrate dihydrate
97%

466360
Zinc iodide
anhydrous, powder, 99.999% trace metals basis

96483
Zinc iodide
purum p.a., ≥98.0% (AT)

230014
Zinc iodide
≥99.99% trace metals basis

223883
Zinc iodide
≥98%

519146
Zinc molybdate
≥99.9% trace metals basis

230006
Zinc nitrate hydrate
99.999% trace metals basis

401439
Zinc perchlorate hexahydrate

587583
Zinc phosphate
99.998% trace metals basis

204986
Zinc sulfate heptahydrate
≥99.95% trace metals basis

333875
Zinc tetrafluoroborate hydrate

14616
Zirconium(IV) carbonate basic
≥40% ZrO_2 basis

520217
Zirconium(IV) carbonate hydroxide oxide

357405
Zirconium(IV) chloride
≥99.9% trace metals basis

221880
Zirconium(IV) chloride
≥99.5% trace metals basis

647640
Zirconium(IV) chloride
anhydrous, powder, 99.99% trace metals basis

395420
Zirconium(IV) chloride tetrahydrofuran complex (1:2)
99%

311464
Zirconium(IV) fluoride
99.9% trace metals basis

464236
Zirconium(IV) hydrogenphosphate

464171
Zirconium(IV) hydroxide
97%

243493
Zirconium(IV) oxynitrate hydrate
99%

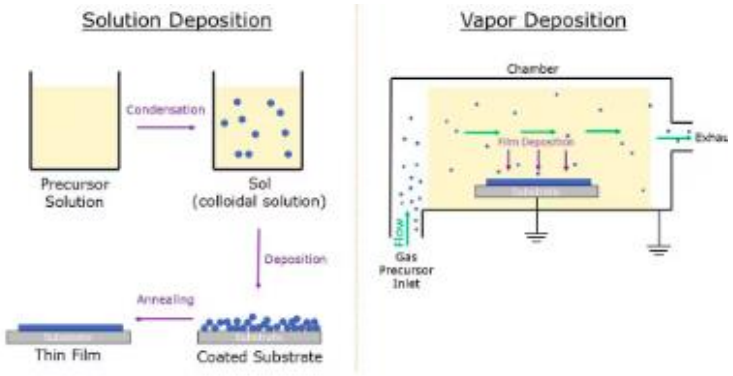
346462
Zirconium(IV) oxynitrate hydrate
technical grade

380679
Zirconium(IV) oxynitrate hydrate
99.99% trace metals basis

366773
Zirconium(IV) sulfate hydrate
99.99% trace metals basis

205028
Zirconyl chloride hydrate
99.99% trace metals basis

Solution & Vapor Deposition Precursors



Chemical solution deposition and chemical vapor deposition are two powerful techniques used to form high-quality and precision thin solid films and coatings. Solution deposition, also known as sol-gel processing, is a popular method used to prepare a wide range of inorganic and hybrid composite materials from precursor solutions. A colloidal suspension known as "sol" is generated, converted to a gel, and subsequently transitions into a solid. However, vapor deposition uses a host of techniques to convert and employ precursors or target materials in the gaseous phase to form engineered films on substrates. Our selection of products for deposition techniques allows you to precisely tailor thin films and their coating properties. Explore our broad range of high-quality and dependable thin film deposition precursor chemicals as per your chosen method and application.

SOLUTION DEPOSITION PRECURSORS

We offer a diverse array of dedicated solution deposition precursors. They are available with 55 different base metals as well as acetate, acetylacetonate, tert-butoxide, isopropoxide, phenoxide, ethoxide, tri-sec-butoxide, methoxide, and 2-ethylhexanoate along with a variety of other functionalities. These products are offered in purities ranging from 90% to 99.999%, in assorted concentrations in select solvents, and with specific hydrated forms to assist your distinct chemistry.

CHEMICAL VAPOR DEPOSITION (CVD) PRECURSORS/ATOMIC LAYER DEPOSITION (ALD) PRECURSORS

We provide high-quality volatile organometallic, metal, and metalorganic precursors for CVD/ALD. For convenience and safety, the prepackaged precursors come in steel cylinders for use with an assortment of deposition systems.

PHYSICAL VAPOR DEPOSITION MATERIALS

Physical vapor deposition (PVD) utilizes vaporized material from solid source material to deposit thin films on a substrate. We offer high-purity sputtering targets, pellets, metal foils, and evaporation slugs for use in various PVD applications. This includes microelectronic devices, battery electrodes, diffusion barriers, and optical coatings.

(3-Aminopropyl)triethoxysilane
99%

741442
(3-Aminopropyl)triethoxysilane
≥98.0%

706493
(3-Aminopropyl)triethoxysilane
packaged for use in deposition systems, ≥98%

281778
(3-Aminopropyl)trimethoxysilane
97%

440183
(3-Chloropropyl)trimethoxysilane
≥97%

440167
(3-Glycidyloxypropyl)trimethoxysilane
≥98%

175617
(3-Mercaptopropyl)trimethoxysilane
95%

415456
1,2-Dichlorotetramethyldisilane
95%

SIK4523-30
11-Acetateundecyltriethoxysilane
≥95%

SIK4522-20
11-Acetateundecyltrimethoxysilane
≥95%

SIK4711-30
11-Azidoundecyltriethoxysilane
≥95%

SIK4405-30
11-Pentafluorophenoxyundecyltriethoxysilane
≥95%

SIK4404-20
11-Pentafluorophenoxyundecyltrimethoxysilane
≥95%

SIK4119-20
12,12,13,13,14,14,15,15,15-Nonafluoropentadecylmethoxysilane
95%

SIK4120-30
12,12,13,13,14,14,15,15,15-Nonafluoropentadecyltriethoxysilane
95%

SIK4117-30
12,12,13,13,14,14,15,15,16,16,17,17,17-Tridecafluoroheptadecyltriethoxysilane
95%

SIK4116-20
12,12,13,13,14,14,15,15,16,16,17,17,17-Tridecafluoroheptadecyltrimethoxysilane
95%

SIK4113-30
12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,19-heptadecafluorononadecyltriethoxysilane
98%

SIK4112-20
12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,19-heptadecafluorononadecyltrimethoxysilane
97%

658758
1*H*,1*H*,2*H*,2*H*-Perfluorodecyltriethoxysilane
97%

729965
1*H*,1*H*,2*H*,2*H*-Perfluorododecyltrichlorosilane
97%

667420
1*H*,1*H*,2*H*,2*H*-Perfluorooctyltriethoxysilane
98%

512990
2,4,6,8-Tetramethylcyclotetrasiloxane
≥98.5%, ≥99.999% trace metals basis

371890
3-Aminopropyl(diethoxy)methylsilane
97%

374156
3-Cyanopropyltriethoxysilane
98%

539252
3-Glycidoxypropyldimethoxymethylsilane
97%

679267
Allyltrimethoxysilane
≥98%, deposition grade

294853
Aluminum acetate, dibasic
contains boric acid as stabilizer

674753
Aluminum acetylacetonate
purified by sublimation, 99.999% trace metals basis

208248
Aluminum acetylacetonate
98%

520179
Aluminum silicate
powder

483265
Antimony(III) acetate
99.99% trace metals basis

155071
Azidotrimethylsilane
95%

255912
Barium acetate
99.999% trace metals basis

339059
Barium acetylacetonate hydrate

202754
Barium nitrate
99.999% trace metals basis

339164
Bis(cyclopentadienyl)cobalt(II)

N7524
Bis(cyclopentadienyl)nickel(II)

510807
Bis(cyclopentadienyl)tungsten(IV) dihydride
97%

510645
Bis(ethylcyclopentadienyl)cobalt(II)

510483
Bis(ethylcyclopentadienyl)nickel(II)

512559
Bis(isopropylcyclopentadienyl)tungsten(IV) dihydride

725471
Bis(methyl-η^5−cyclopentadienyl)methoxymethylzirconium
packaged for use in deposition systems

566748
Bis(pentafluorophenyl)zinc
97%

401781
Bis(pentamethylcyclopentadienyl)cobalt(II)

378542
Bis(pentamethylcyclopentadienyl)iron(II)

97%

463086
Boron trifluoride
electronic grade, ≥99.99%

341622
Bromopentacarbonylmanganese(I)
98%

229490
Cadmium acetate hydrate
≥99.99% trace metals basis

517585
Cadmium acetylacetonate
≥99.9% trace metals basis

755087
Cadmium(II) acetate
anhydrous, 99.995%

529559
Cerium(III) acetate hydrate
99.99% trace metals basis

367753
Cerium(III) acetate hydrate
99.9% trace metals basis

381403
Cerium(III) acetylacetonate hydrate

329827
Cesium acetate
99.9% trace metals basis

450154
Cesium acetate
≥99.99% trace metals basis

202231
Chromium(III) acetylacetonate
97%

468223
Chromium(III) tris(2,2,6,6-tetramethyl-3,5-heptanedionate)

444545
Cobalt(II) 2-ethylhexanoate solution
65 wt. % in mineral spirits

399973
Cobalt(II) acetate
99.99% trace metals basis

227129
Cobalt(II) acetylacetonate
97%

339695
Cobalt(II) hexafluoroacetylacetonate hydrate
98%

494534
Cobalt(III) acetylacetonate
99.99% trace metals basis

C83902
Cobalt(III) acetylacetonate
98%

345083
Copper bis(2,2,6,6-tetramethyl-3,5-heptanedionate)
99%

403342
Copper(I) acetate
97%

517453
Copper(II) acetate
powder, 99.99% trace metals basis

341746
Copper(II) acetate hydrate
98%

229601
Copper(II) acetate monohydrate
99.99% trace metals basis

C87851
Copper(II) acetylacetonate
97%

514365
Copper(II) acetylacetonate
≥99.9% trace metals basis

335193
Copper(II) hexafluoroacetylacetonate hydrate

101826
Copper(II) trifluoroacetylacetonate
97%

288055
Cyclopentadienylmanganese(I) tricarbonyl

117609
Cyclopentadienylmolybdenum(II) tricarbonyl, dimer
98%

520586
Dibutyltin bis(acetylacetonate)
95%

D61504
Dichlorodiphenylsilane
97%

435171
Diethoxy(3-glycidyloxypropyl)methylsilane
97%

175595
Diethoxydimethylsilane
97%

40120
Diethoxydimethylsilane
purum, ≥97.0% (GC)

256749
Diethylaluminum ethoxide
97%

446203
Dimethoxymethylvinylsilane
97%

41572
Dimethyl selenide
≥99.0% (GC)

D213705
Diphenylsilanediol
95%

245003
Dirhenium decacarbonyl
98%

463043
Disilane
electronic grade

44237
Dodecyltriethoxysilane
technical

325538
Dysprosium(III) acetate hydrate
99.9% trace metals basis

325570
Erbium(III) acetate hydrate
99.9% trace metals basis

254371
Ethoxytrimethylsilane
98%

164100
Ethyl acetoacetate sodium salt

545090
Europium(III) acetate hydrate
99.999% trace metals basis

325627
Europium(III) acetate hydrate
99.9% trace metals basis

393215
Europium(III) acetylacetonate hydrate

325678
Gadolinium(III) acetate hydrate
99.9% trace metals basis

331716
Gadolinium(III) acetylacetonate hydrate
99.9% trace metals basis

393541
Gallium(III) acetylacetonate
99.99% trace metals basis

52360
Hexadecyltrimethoxysilane
technical, ≥85% (GC)

447609
Hexamethyldigermanium(IV)
technical grade

217069
Hexamethyldisilane
98%

379212
Hexamethyldisilazane
ReagentPlus®, 99.9%

440191
Hexamethyldisilazane
reagent grade, ≥99%

467332
Holmium(III) acetate hydrate
99.99% trace metals basis

510270
Indium(III) acetate
99.99% trace metals basis

342378
Indium(III) acetate hydrate
99.99% trace metals basis

I3300
Indium(III) acetylacetonate
≥99.99% trace metals basis

481718
Iron(0) pentacarbonyl
>99.99% trace metals basis

517933
Iron(II) acetate
≥99.99% trace metals basis

339199
Iron(II) acetate
95%

44920
Iron(III) acetylacetonate
purum, ≥97.0% (RT)

F300
Iron(III) acetylacetonate
97%

517003
Iron(III) acetylacetonate
≥99.9% trace metals basis

306339
Lanthanum(III) acetate hydrate
99.9% trace rare earth metals basis

325759
Lanthanum(III) acetylacetonate hydrate

316512
Lead(II) acetate trihydrate
99.999% trace metals basis

401684

Lead(II) acetylacetonate
technical grade

467790
Lead(II) nitrate
≥99.95% trace metals basis

920320
Lithium acetate
anhydrous, 99.9% trace metals basis

517992
Lithium acetate
99.95% trace metals basis

413046
Lithium acetylacetonate
97%

325783
Lutetium(III) acetate hydrate
99.9% trace metals basis

129577
Magnesium acetylacetonate dihydrate
98%

245267
Manganese(0) carbonyl
98%

330825
Manganese(II) acetate
98%

221007
Manganese(II) acetate tetrahydrate
≥99%

229776
Manganese(II) acetate tetrahydrate
99.99% trace metals basis

245763
Manganese(II) acetylacetonate

215880
Manganese(III) acetate dihydrate
97%

463035
Methane
electronic grade, ≥99.998%

253006
Methoxytrimethylsilane
99%

679208
Methyltrichlorosilane
deposition grade, ≥98% (GC), ≥99.99% (as metals)

577766
Molybdenumhexacarbonyl
≥99.9% trace metals basis

460427
Neodymium(III) acetylacetonate hydrate

767484
Nickel
sputtering target, diam. × thickness 2.00 in. × 0.25 in., 99.95% trace metals basis

379883
Nickel(II) acetate tetrahydrate
99.995% trace metals basis

244066
Nickel(II) acetate tetrahydrate
98%

283657
Nickel(II) acetylacetonate
95%

403393
Nickel(II) bis(2,2,6,6-tetramethyl-3,5-heptanedionate)
97%

339709
Nickel(II) hexafluoroacetylacetonate hydrate
98%

539279
Octenyltrichlorosilane, mixture of isomers
96%

496863
Pentakis(dimethylamino)tantalum(V)
99.99%

255785
Potassium acetate
99.98% trace metals basis

348082
Potassium dichloroacetate
98%

325872
Samarium(III) acetate hydrate
99.9% trace metals basis

517666
Samarium(III) acetylacetonate hydrate
≥99.9% trace metals basis

325899
Scandium(III) acetate hydrate
99.9% trace metals basis

410128
Scandium(III) isopropoxide

494100
Silicon tetrabromide
99.995% trace metals basis

333468
Silicon tetrabromide
99%

289388
Silicon tetrachloride
99.998% trace metals basis

688509
Silicon tetrachloride

packaged for use in deposition systems

215120
Silicon tetrachloride
99%

229873
Sodium acetate
99.995% trace metals basis

436186
Sodium hexafluoroacetylacetonate
97%

281018
Sodium thiomethoxide
95%

437883
Strontium acetate
99.95% trace metals basis

325929
Terbium(III) acetate hydrate
99.9% trace metals basis

484008
Terbium(III) acetylacetonate hydrate
99.9% trace metals basis

271446
Tetraallyltin
97%

T5702
Tetrabutyl orthosilicate
97%

759414
Tetraethyl orthosilicate
packaged for use in deposition systems

131903
Tetraethyl orthosilicate
reagent grade, 98%

333859
Tetraethyl orthosilicate
99.999% trace metals basis

510874
Tetraethylsilane
99%

914037
Tetrakis(4-bromophenyl) silane
≥96%

455202
Tetrakis(diethylamido)hafnium(IV)
99.99%

397326
Tetrakis(diethylamido)tin(IV)

455199
Tetrakis(dimethylamido)hafnium(IV)
≥99.99%

666610
Tetrakis(dimethylamido)hafnium(IV)
packaged for use in deposition systems

698431
Tetrakis(dimethylamido)tin(IV)
99.9% trace metals basis

669008
Tetrakis(dimethylamido)titanium(IV)
packaged for use in deposition systems

469858
Tetrakis(dimethylamido)titanium(IV)
99.999% trace metals basis

579211
Tetrakis(dimethylamido)zirconium(IV)
electronic grade, ≥99.99% trace metals basis

669016
Tetrakis(dimethylamido)zirconium(IV)
packaged for use in deposition systems

725544
Tetrakis(ethylmethylamido)hafnium(IV)
packaged for use in deposition systems

553123
Tetrakis(ethylmethylamido)hafnium(IV)
≥99.99% trace metals basis

725528
Tetrakis(ethylmethylamido)zirconium(IV)
packaged for use in deposition systems

553131
Tetrakis(ethylmethylamido)zirconium(IV)
≥99.99% trace metals basis

218472
Tetramethyl orthosilicate
98%

341436
Tetramethyl orthosilicate
≥99%

438669
Tetramethylammonium silicate solution
15-20 wt. % in H_2O, ≥99.99% trace metals basis

396354
Tetramethylgermanium
98%

523771
Tetramethylsilane
electronic grade, ≥99.99% trace metals basis

481394
Tetramethyltin
95%

235741
Tetrapropyl orthosilicate
95%

679240

Tetrapropyl orthosilicate
≥98%, deposition grade

328669
Tetravinyltin
97%

T8266
Thallium(I) acetate
≥99%

204609
Thallium(I) nitrate
99.999% trace metals basis

697478
Tin(II) acetylacetonate
99.9% trace metals basis

345172
Tin(IV) acetate

404659
Tin(IV) bis(acetylacetonate) dichloride
98%

767506
Titanium
sputtering target, diam. × thickness 2.00 in. × 0.25 in., 99.995% trace metals basis

697079
Titanium tetrachloride
packaged for use in deposition systems

494143
Titanium(IV) diisopropoxidebis(2,2,6,6-tetramethyl-3,5-heptanedionate)
99.99%

330833
Titanium(IV) oxyacetylacetonate
90%

409170
Tributylgermanium hydride
99%

448931
Trichloro(1*H*,1*H*,2*H*,2*H*-perfluorooctyl)silane
97%

104817
Trichloro(octadecyl)silane
≥90%

235725
Trichloro(octyl)silane
97%

420034
Trichloro(phenethyl)silane
95%

T58408
Triethanolamine borate
97%

679305
Triethoxy(octyl)silane
deposition grade, 97%, 99.99% trace metals basis

440213
Triethoxy(octyl)silane
97%

175560
Triethoxyvinylsilane
97%

679275
Triethoxyvinylsilane
≥98%, deposition grade

429961
Triethylgermanium hydride
98%

413321
Trimethoxy[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]silane
98%

551635
Trimethoxy[3-(methylamino)propyl]silane

95%

438340
Trimethoxy(2-phenylethyl)silane
98%

376213
Trimethoxy(octadecyl)silane
technical grade

376221
Trimethoxy(octyl)silane
96%

435651
Trimethoxyphenylsilane
≥94%

104744
Trimethoxyphenylsilane
97%

366331
Trimethyl(phenyl)tin
98%

663301
Trimethylaluminum
packaged for use in deposition systems

257222
Trimethylaluminum
97%

T81809
Triphenylantimony(III)
99%

T81906
Triphenylarsine
97%

115894
Triphenylarsine oxide
97%

424838
Triphenylgermanium hydride

524514
Tris[*N*,*N*-bis(trimethylsilyl)amide]yttrium

524522
Tris(butylcyclopentadienyl)yttrium(III)
99.9% trace metals basis

751774
Tris(diethylamido)(*tert*-butylimido)niobium(V)
packaged for use in deposition systems

521280
Tris(diethylamido)(*tert*-butylimido)tantalum(V)
99%, ≥99.99% trace metals basis

668990
Tris(diethylamido)(*tert*-butylimido)tantalum(V)
packaged for use in deposition systems

469947
Tris(dimethylamido)aluminum(III)

759562
Tris(dimethylamino)silane
packaged for use in deposition systems

442593
Tris(pentafluorophenyl)borane
95%

553468
Tris(*tert*-butoxy)silanol
99.999%

553441
Tris(*tert*-pentoxy)silanol
≥99.99%

241431
Tungsten hexacarbonyl
97%

472956
Tungsten hexacarbonyl
99.99% trace metals basis (excluding Mo), purified by sublimation

755737
Tungsten hexacarbonyl
packaged for use in deposition systems

227110
Vanadium(III) acetylacetonate
97%

94735
Vanadyl acetylacetonate
purum, ≥97.0% (RT)

550787
Vanadyl acetylacetonate
98%

235768
Vinyltrimethoxysilane
98%

440221
Vinyltrimethoxysilane
97%

544973
Ytterbium(III) acetate hydrate
99.95% trace metals basis
326011
Ytterbium(III) acetate tetrahydrate
99.9% trace metals basis

773972
Yttrium sputtering target
diam. × thickness 2.00 in. × 0.25 in., 99.9% trace metals basis

326046
Yttrium(III) acetate hydrate
99.9% metals basis

930962
Yttrium(III) acetate tetrahydrate
99.99% trace rare earth metals basis

510661
Yttrium(III) butoxide solution
0.5 M in toluene, ≥99.9% trace metals basis

379786
Zinc acetate dihydrate
99.999% trace metals basis

480991
Zinc acetylacetonate hydrate
99.995% trace metals basis

132306
Zinc acetylacetonate hydrate

413801
Zirconium acetate solution
in dilute acetic acid

478865
Zirconium tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionate)
≥99.99%

464600
Zirconium(IV) acetate hydroxide

338001
Zirconium(IV) acetylacetonate
97%

383325
Zirconium(IV) trifluoroacetylacetonate
97%

Алматы (7273)495-231
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