

百灵威钙钛矿太阳能电池材料



光伏发电是根据光生伏特效应原理，利用太阳能电池将太阳光能直接转化为电能。其中 p-n 结是太阳能电池的核心——钙钛矿层吸收光子产生电子空穴对，通过 p-n 结形成内建电场，产生电动势。太阳光入射到钙钛矿太阳能电池后，空穴和电子被注入到空穴传输层和电子传输层中，分别被对电极和透明电极收集，最终经外电路形成电流，完成发电循环。

钙钛矿材料作为第三代太阳能电池的核心材料，可有效解决行业持续降本难及高温工艺的绿色难题，助力加速实现碳中和。

■ 浆料

SnO₂ 是一种宽禁带的直接带隙半导体材料，其常温下的禁带宽度约为 3.6 eV。金红石结构的纳米 SnO₂ 材料具有化学稳定性好、电子迁移率高、透光性好、成本低和无毒等优点

品名	CAS	货号
Tin(IV) oxide, 3 - 6 nm, 3% organic solvent dispersion 二氧化锡(IV), 3 - 6 nm, 3%有机溶剂分散液	18282-10-5	908545
Tin(IV) oxide, 3 - 6 nm, 5% in H ₂ O colloidal dispersion 二氧化锡(IV), 3 - 6 nm, 5%水胶体分散液	18282-10-5	911753

■ 空穴传输层试剂

品名	CAS	货号
PEDOT: PSS (CLEVIOS™ P VP AI 4083), from Heraeus PEDOT: PSS, 型号为 4083, 来自贺利氏	155090-83-8	927751
PEDOT: PSS (CLEVIOS™ PH 1000), from Heraeus PEDOT:PSS, 型号为 1000, 来自贺利氏	155090-83-8	977557
Nickel(II) oxide nanopowder, 99.9%, Including NiO, Ni ₂ O ₃ and NiOOH 纳米氧化镍(II), 99.9%, 包含 NiO, Ni ₂ O ₃ , NiOOH 三种组分	1313-99-1	903975
2,2',7,7'-Tetrakis-(N,N-di-4-methoxyphenylamino)-9,9'-spirobifluorene, 98% 2,2',7,7'-四[N,N-二(4-甲氧基苯基)氨基]-9,9'-螺二苝, 98%	207739-72-8	920726
Pyrrolidinium thiocyanate, 99.8%, for perovskite solar cell 硫氰酸吡咯烷, 99.8%, 用于钙钛矿太阳能电池	217309-80-3	9242254
2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 98% 2,3,5,6-四氟-7,7,8,8-四氰二甲基对苯醌, 98%	29261-33-4	947622



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2,2',7,7'-Tetrakis-(N,N-di-4-methoxyphenylamino)-9,9'-spirobifluorene, 99.5%, for perovskite solar cell		
2,2',7,7'-四[N,N-二(4-甲氧基苯基)氨基]-9,9'-螺二苊, 99.5%, 用于钙钛矿太阳能电池	207739-72-8	965749
Poly-TPD, average MW: 10,000 - 100,000		
聚[双(4-苯基)(4-丁基苯基)胺], 平均分子量: 10,000 - 100,000	472960-35-3	1769701
PTAA, average Mn: 20,000 - 40,000		
聚[双(4-苯基)(2,4,6-三甲基苯基)胺], 数均分子量:20,000 - 40,000	1333317-99-9	1812309
PTAA, average Mn: 17,000		
聚[双(4-苯基)(2,4,6-三甲基苯基)胺], 数均分子量:17,000	1333317-99-9	976751
Poly(3-hexylthiophene-2,5-diyl), average M.W. 45000		
聚(3-己基噻吩-2,5-二基), 平均分子量 45000	104934-50-1	986833
2,2',7,7'-Tetrakis(diphenylamino)-9,9'-spirobi[9H-fluorene], 98%		
2,2',7,7'-四(二苯氨基)-9,9'-螺二[9H-苊], 98%	189363-47-1	1419044
tert-Butylamine Hydrobromide, 99.8%		
叔丁基胺氢溴酸盐, 99.8%	60469-70-7	2074383
Ethylenediamine Dihydrobromide, 99.8%		
乙二胺二氢溴酸盐, 99.8%	624-59-9	2074413
1,3,5-Tri(p-pyrid-3-yl-phenyl)benzene, 98%, sublimed		
1,3,5-三(对-吡啶-3-基-苯基)苯 1,3,5-三(对-吡啶-3-基-苯基)苯, 98%, 升华	921205-02-9	1807396
Lithium bis(trifluoromethanesulfonyl)imide, 99%		
双(三氟甲磺酰)亚胺锂, 99%	90076-65-6	221472
4,4',4''-Tris(carbazol-9-yl)triphenylamine, 99%, sublimed		
4,4',4''-三(咔唑-9-基)三苯胺, 99%, 升华	139092-78-7	957827
1,3,5-Tris[4-[bis(4-methoxyphenyl)amino]phenyl]benzene, 98%		
1,3,5-三[4-[双(4-甲氧基苯基)氨基]苯基]苯, 98%	142894-38-0	2739652
Zinc phthalocyanine, 95%		
酞菁锌, 95%	14320-04-8	111915

■ 电子传输层试剂

品名	CAS	货号
Fullerene C70, 99%		
富勒烯 C70, 99%	115383-22-7	112059
Fullerene C60, 99.5%		
富勒烯 C60, 99.5%	99685-96-8	371111



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Fullerene C60, 99.9% 富勒烯 C60 , 99.9%	99685-96-8	940919
Fullerene C70, 98% 富勒烯 C70 , 98%	115383-22-7	954069
Fullerene C60, 98% 富勒烯 C60 , 98%	99685-96-8	966237
Tris(2-(1H-pyrazol-1-yl)-4-tert-butylpyridine)-cobalt(III)Tris(bis(trifluoromethylsulfonyl)imide)), 99% 三(2-(1H-吡唑-1-基)-4-叔丁基吡啶)-钴(III)三(双(三氟甲基磺酰基)酰亚胺), 99%	1447938-61-5	1769709
2,4,6-Tris(1,1'-biphenyl)-1,3,5-triazine, 99%, sublimed 2,4,6-三(1,1'-联苯基)-1,3,5-三嗪, 99%, 升华	1201800-83-0	2451957
4,4'-Bis(4,6-diphenyl-1,3,5-triazin-2-yl)biphenyl, 95%, HPLC, sublimed 4,4'-双(4,6-二苯基-1,3,5-三嗪-2-基)联苯, 95%, 高效液相色谱法, 升华	266349-83-1	2123640
4,6-Bis(3,5-di(pyridin-4-yl)phenyl)-2-phenylpyrimidine, 99%, sublimed 4,6-双(3,5-二(吡啶-4-基)苯基)-2-苯基嘧啶, 99%, 升华	1097652-83-9	9257404
N,N,N',N'-Tetraphenylbenzidine, 98% N,N,N',N'-四苯基联苯胺, 98%	15546-43-7	143076
3'H-Cyclopropa[1,9][5,6]fullerene-C60-Ih-3'-butanoic acid-3'-phenyl-2-[[2-(dimethylamino)ethyl]methylamino]ethyl ester, 95% 3'H-环丙[1,9][5,6]富勒烯-C60-Ih-3'-丁酸-3'-苯基-2-[[2-(二甲基氨基)乙基]甲基氨基]乙酯, 95%	1478675-82-9	2667615
4-tert-Butylpyridine, 96% 4-叔丁基吡啶, 96%	3978-81-2	441738
Methyl [6,6]-phenyl-C61-butyrate, 99.5%, for perovskite solar cell [6,6]-苯基-C61-丁酸甲酯, 99.5%, 用于钙钛矿太阳能电池	160848-22-6	789343
[6,6]-Phenyl C71 butyric acid methyl ester, 99%, mixture of isomers [6,6]-苯基 C71 丁酸甲酯, 99%, 异构体混合物	609771-63-3	789344
1-Ethyl-3-methylimidazolium tetrafluoroborate, 97% 1-乙基-3-甲基咪唑鎓四氟硼酸盐, 97%	143314-16-3	916289
Tris(2,4,6-trimethyl-3-(pyridin-3-yl)phenyl)borane, 99%, sublimed 三(2,4,6-三甲基-3-(吡啶-3-基)苯基)甲硼烷, 99%, 升华	929203-02-1	9264862

■ 传输层试剂

品名	CAS	货号
Tris(pentafluorophenyl)borane, 97% 三(五氟苯基)硼, 97%	1109-15-5	116849



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Sodium bis(trifluoromethanesulfonyl)imide, 98% 双(三氟甲基磺酰基)酰亚胺钠, 98%	91742-21-1	<u>1467240</u>
1-Ethyl-3-methylimidazolium tetrafluoroborate, 99% 1-乙基-3-甲基咪唑鎓四氟硼酸盐, 99%	143314-16-3	<u>191819</u>
Lithium bis(trifluoromethanesulfonyl)imide, 98% 双(三氟甲磺酰)亚胺锂, 98%	90076-65-6	<u>200644</u>
1-Butyl-3-methylimidazolium tetrafluoroborate, 99% 1-丁基-3-甲基咪唑鎓四氟硼酸盐, 99%	174501-65-6	<u>200836</u>
Lithium bis(trifluoromethanesulfonyl)imide, 99% 双(三氟甲磺酰)亚胺锂, 99%	90076-65-6	<u>221472</u>
1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide, 99% 1-乙基-3-甲基咪唑鎓 双(三氟甲基磺酰基)亚胺盐, 99%	174899-82-2	<u>262493</u>
2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 95% 2,3,5,6-四氟-7,7,8,8-四氰二甲基对苯醌, 95%	29261-33-4	<u>576478</u>
Lithium bis(fluorosulfonyl)amide, 99% 双(氟磺酰)亚胺锂, 99%	171611-11-3	<u>9005856</u>
Lithium hexafluorophosphate, 99% 六氟磷酸锂, 99%	21324-40-3	<u>935807</u>
1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide, 99% 1-丁基-3-甲基咪唑鎓双三氟甲磺酰亚胺盐, 99%	174899-83-3	<u>966165</u>
Zinc bis(trifluoromethylsulfonyl)imide, 97% 二[双(三氟甲基磺酰)亚胺]锌, 97%	168106-25-0	<u>988794</u>

■ 碘酸盐

品名	CAS	货号
Imidazole hydroiodide, 98% 咪唑氢碘酸盐, 98%	68007-08-9	<u>1878902</u>
Formamidinium hydroiodide, 98% 甲脒氢碘酸盐, 98%	879643-71-7	<u>1862414</u>
Formamidinium hydroiodide, 99.99%, for perovskite solar cell 甲脒氢碘酸盐, 99.99%, 钙钛矿电池用	879643-71-7	<u>956035</u>
Propylamine hydroiodide, 98%, for perovskite solar cell 丙胺氢碘酸盐, 98%, 用于钙钛矿太阳能电池	14488-45-0	<u>9005528</u>
Diisopropylamine Hydroiodide, 99.8% 二异丙胺氢碘酸盐, 99.8%	132396-99-7	<u>9117165</u>



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Dipropylamine hydroiodide, 99.8%, for perovskite solar cell 二丙胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	14488-46-1	<u>9189800</u>
Diethylamine hydroiodide, 98% 二乙胺氢碘酸盐, 98%	19833-78-4	<u>9005496</u>
Guanidine hydroiodide, 98% 胍氢碘酸盐, 98%	19227-70-4	<u>9005510</u>
Iso-Propylamine hydroiodide, 99.8%, for perovskite solar cell 异丙胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	66735-20-4	<u>9005511</u>
Butylamine hydroiodide, 98% 丁胺氢碘酸盐, 98%	36945-08-1	<u>9005453</u>
Butylamine hydroiodide, 99.9%, for perovskite solar cell 丁胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池	36945-08-1	<u>986758</u>
Isobutylamine hydroiodide, 99.9%, for perovskite solar cell, purified four times 异丁胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	205508-75-4	<u>9005512</u>
Benzylamine hydroiodide, 99.9%, for perovskite solar cell, purified four times 苯甲胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	45579-91-7	<u>9005467</u>
Ethylamine hydroiodide, 98%, for perovskite solar cell 乙胺氢碘酸盐, 98%, 用于钙钛矿太阳能电池	506-58-1	<u>9005504</u>
Dimethylamine hydroiodide, 99.8%, for perovskite solar cell 二甲胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	51066-74-1	<u>9005491</u>
Dimethylamine hydroiodide, 98% 二甲胺氢碘酸盐, 98%	51066-74-1	<u>949294</u>
2-(4-Fluorophenyl)ethylamine hydroiodide, 99.8%, for perovskite solar cell 2-(4-氟苯基)乙胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	1413269-55-2	<u>2749525</u>
Pyridine hydroiodide, 99.8%, N/A for perovskite solar cell 吡啶氢碘酸盐, 99.8%, N/A 用于钙钛矿太阳能电池	18820-83-2	<u>2764061</u>
4-Fluorobenzylamine hydroiodide, 99.8%, for perovskite solar cell 4-氟苄胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	2097121-30-5	<u>2764053</u>
Cyclohexanemethylamine hydroiodide, 99.8%, for perovskite solar cell 环己甲胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	2153504-15-3	<u>9026144</u>
tert-Butylamine hydroiodide, 98% 叔丁胺氢碘酸盐, 98%	39557-45-4	<u>9005454</u>
tert-Butylamine hydroiodide, 99.9%, for perovskite solar cell 叔丁胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池	39557-45-4	<u>994020</u>



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Pyrrolidine hydriodide, 99%, for perovskite solar cell 吡咯烷氢碘酸盐, 99%, 用于钙钛矿太阳能电池	45361-12-4	<u>2451201</u>
Cyclohexylamine hydroiodide, 99.8%, for perovskite solar cell 环己胺氢碘酸盐, 99.8%, 用于钙钛矿太阳能电池	45492-87-3	<u>2749506</u>
Aniline hydroiodide, 98%, for perovskite solar cell 苯胺氢碘酸盐, 98%, 用于钙钛矿太阳能电池	45497-73-2	<u>1862360</u>
Hexaneammonium iodide, 99.9%, for perovskite solar cell, purified four times 己胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	54285-91-5	<u>9239499</u>
Ethylenediamine Dihydroiodide, 99.8% 乙二胺二氢碘酸盐, 99.8%	5700-49-2	<u>335587</u>
1-Pentanamine hydroiodide, 99.9%, for perovskite solar cell, purified four times 1-戊胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	60762-85-8	<u>9188267</u>
1,4-Diaminobutane Dihydroiodide, 99.8% 1,4-丁二胺二氢碘酸盐, 99.8%	916849-52-0	<u>9067876</u>
4-Hydroxyphenethylammonium iodide, 99.8%, for perovskite solar cell 4-羟基苯乙基碘化铵, 99.8%, 用于钙钛矿太阳能电池	1256333-17-1	<u>9242182</u>
4-Chlorophenethylammonium iodide, 99.8%, for perovskite solar cell 4-氯苯乙基碘化铵, 99.8%, 用于钙钛矿太阳能电池	1639014-61-1	<u>9242192</u>
Hexane-1,6-diammonium iodide, 99.8%, for perovskite solar cell 己烷-1,6-碘化二铵, 99.8%, 用于钙钛矿太阳能电池	20208-23-5	<u>9242197</u>
Neo-pentylammonium iodide, 99.8%, for perovskite solar cell 新戊基碘化铵, 99.8%, 用于钙钛矿太阳能电池	26154-20-1	<u>9242203</u>
n-Dodecylammonium iodide, 99.8%, for perovskite solar cell 正十二烷基碘化铵, 99.8%, 用于钙钛矿太阳能电池	34099-97-3	<u>2451931</u>
Quinuclidin-1-ium iodide, 99.8%, for perovskite solar cell 奎宁碘, 99.8%, 用于钙钛矿太阳能电池	45591-25-1	<u>9242204</u>
Iso-Pentylammonium iodide, 99.8%, for perovskite solar cell 异戊基碘化铵, 99.8%, 用于钙钛矿太阳能电池	5424-26-0	<u>246694</u>
Morpholine hydroiodide, 99.8%, for perovskite solar cell 碘化吗啉, 99.8%, 用于钙钛矿太阳能电池	58464-45-2	<u>9117173</u>
n-Octylammonium Iodide, 99.9%, for perovskite solar cell, purified four times 正辛基碘化铵, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	60734-63-6	<u>2451929</u>
4-Fluoroaniline hydroiodide, 99.8%, for perovskite solar cell 4-氟碘化苯胺, 99.8%, 用于钙钛矿太阳能电池	85734-19-6	<u>9116777</u>



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4-Methoxyphenethylammonium iodide, 99.8% 4-甲氧基苯乙基碘化铵, 99.8%	/	<u>9242184</u>
4-Methylphenethylammonium iodide, 99.8%, for perovskite solar cell 4-甲基苯乙基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242181</u>
4-Fluoro-phenylethyl ammonium iodide, 99.9%, for perovskite solar cell, purified four times 4-氟-苯乙基碘化铵, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	/	<u>9239500</u>
4-Chlorophenylammonium iodide, 99.8%, for perovskite solar cell 4-氯苯基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242183</u>
2-Thiopheneethylammonium iodide, 99.8%, for perovskite solar cell 2-噻吩乙基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242187</u>
1-n-Hexyl-DABCO iodide, 99.8%, for perovskite solar cell 1-正己基-DABCO 碘化物, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242188</u>
Diethanolammonium iodide, 99.8%, for perovskite solar cell 二乙醇碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242189</u>
2-Thiophenemethylammonium iodide, 99.8%, for perovskite solar cell 2-噻吩甲基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242191</u>
4-Trifluoromethyl-phenylammonium iodide, 99%, for perovskite solar cell 4-三氟甲基苯基碘化铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242201</u>
4-Methoxy-phenylammonium iodide, 99.8%, for perovskite solar cell 4-甲氧基苯基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242200</u>
2-Methoxyethylammonium iodide, 99.8%, for perovskite solar cell 2-甲氧基乙基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242196</u>
N,N-Diethylpropane-1,3-diammonium iodide, 99.8%, for perovskite solar cell N,N-二乙基丙烷-1,3-碘化二铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242198</u>
N,N-Diethylethane-1,2-diammonium iodide, 99%, for perovskite solar cell N,N-二乙基乙烷-1,2-碘化二铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242194</u>
2-Pyrrolidin-1-ium-1-ylethylammonium iodide, 99.8%, for perovskite solar cell 2-吡咯烷-1-碘-1-乙基铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242199</u>
Ethanolammonium iodide, 99.8%, for perovskite solar cell 碘化乙醇铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242190</u>
5-Azaspiro[4.4]nonan-5-ium iodide, 99.8%, for perovskite solar cell 5-氮杂螺环[4.4]壬-5-碘化物, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242209</u>
1,4-Diazabicyclo[2,2,2]octane-1,4-diium iodide, 99.8%, for perovskite solar cell 1,4-二氮杂环[2,2,2]辛烷-1,4-二碘化铵, 99.8%	/	<u>9242208</u>



百灵威钙钛矿太阳能电池材料



4-Trifluoromethyl-benzylammonium iodide, 99.8%, for perovskite solar cell	/	9242202
4-三氟甲基苄基碘化铵, 99.8%, 用于钙钛矿太阳能电池		
tert-Octylammonium iodide, 99.8%, for perovskite solar cell	/	9242210
叔辛基碘化铵, 99.8%, 用于钙钛矿太阳能电池		
N,N-Dimethylpropane- 1,3-diammonium iodide, 99.8%, for perovskite solar cell	/	9242211
N,N-二甲基丙烷-1,3-碘化二铵, 99.8%, 用于钙钛矿太阳能电池		
N,N-Dimethylpropane- 1,3-diammonium iodide, 99.8%, for perovskite solar cell	/	9242212
N,N-二甲基乙烷-1,2-碘化二铵, 99.8%, 用于钙钛矿太阳能电池		
3-Ammonium propionic acid iodide, 99%, for perovskite solar cell	/	9242223
3-丙酸碘化铵, 99%, 用于钙钛矿太阳能电池		
4-Ammonium butyric acid iodide, 99.8%, for perovskite solar cell	/	9242221
4-丁酸碘化铵, 99.8%, 用于钙钛矿太阳能电池		
4-Bromo-N,N-bis(4-iodophenyl)aniline, 99%, for perovskite solar cell	/	9242217
4-溴-N,N-双(4-碘苯基)苯胺, 99%, 用于钙钛矿太阳能电池		

■ 盐酸盐

品名	CAS	货号
Formamidinium hydrochloride, 98%		
甲脒盐酸盐, 98%	6313-33-3	468357
Formamidinium hydrochloride, 99.9%, for perovskite solar cell, purified four times	6313-33-3	921418
甲脒盐酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化		
Propylamine hydrochloride, 98%		
丙胺盐酸盐, 98%	556-53-6	509987
Ethanamine hydrochloride, 99.8%, for perovskite solar cell		
乙胺盐酸盐, 99.8%, 用于钙钛矿太阳能电池	557-66-4	143003
Methylamine hydrochloride, 99%		
甲胺盐酸盐, 99%	593-51-1	128725
Methylamine hydrochloride, 99.9%, for perovskite solar cell, purified four times	593-51-1	948868
甲胺盐酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化		
Di-Propylammonium chloride, 99.8%, for perovskite solar cell	/	9242300
二丙基氯化铵, 99.8%, 用于钙钛矿太阳能电池		
Morpholine hydrochloride, 98%	10024-89-2	247167
吗啉盐酸盐, 98%		



百灵威钙钛矿太阳能电池材料



1,3-Diaminopropane Dihydrochloride, 97% 1,3-二氨基丙烷二盐酸盐, 97%	10517-44-9	<u>533629</u>
1-Pentanamine hydrochloride, 99.9%, for perovskite solar cell, purified four times 1-戊胺盐酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	142-65-4	<u>9188289</u>
Isopropylamine Hydrochloride, 98% 异丙基氨盐酸盐, 98%	15572-56-2	<u>511053</u>
4-Fluorophenethylamine hydrochloride, 99.8%, for perovskite solar cell 4-氟苯乙胺盐酸盐, 99.8%, 用于钙钛矿太阳能电池	459-19-8	<u>479976</u>
2-Fluoroethan-1-amine hydrochloride, 98% 2-氟代乙-1-胺盐酸盐, 98%	460-08-2	<u>485979</u>
Tyramine hydrochloride, 99% 酪胺盐酸盐, 99%	60-19-5	<u>924365</u>
5-Aminovaleric acid hydrochloride, 99%, for perovskite solar cell 5-氨基戊酸盐酸盐, 99%, 用于钙钛矿太阳能电池	627-95-2	<u>951829</u>
Dibutylamine Hydrochloride, 98% 二丁胺盐酸盐, 98%	6287-40-7	<u>131210</u>
4-Chlorobenzyl chloride, 99% 4-氯苄氯, 99%	104-83-6	<u>153013</u>
n-Octylammonium chloride, 99.8%, for perovskite solar cell 正辛基氯化铵, 99.8%, 用于钙钛矿太阳能电池	142-95-0	<u>9242298</u>
4-Chloro-phenethylammonium chloride, 99.8%, for perovskite solar cell 4-氯苯乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	2492-83-3	<u>1212059</u>
4-Methylphenethylammonium chloride, 99.8%, for perovskite solar cell 4-甲基苯乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	39260-86-1	<u>1573059</u>
2-Thiopheneethylammonium chloride, 99.8%, for perovskite solar cell 2-噻吩乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242299</u>
tert-Butylamine hydroiodide, 99.9%, for perovskite solar cell 叔丁胺氢碘酸盐, 99.9%, 用于钙钛矿太阳能电池	/	<u>9242230</u>
n-Pentylammonium chloride, 99.8%, for perovskite solar cell 正戊基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242292</u>
Hexane-1,6-diammonium chloride, 99.8%, for perovskite solar cell 己烷-1,6-氯化二铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242291</u>
Diphenylammonium chloride, 99.8%, for perovskite solar cell 二苯基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242289</u>



百灵威钙钛矿太阳能电池材料



4-Fluoro-benzylammonium chloride, 99.8%, for perovskite solar cell 4-氟苄基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242294</u>
4-Methoxy-phenethylammonium chloride, 99.8%, for perovskite solar cell 4-甲氧基-苄乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242293</u>
4-Trifluoromethyl-benzylammonium chloride, 99%, for perovskite solar cell 4-三氟甲基-苄基氯化铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242296</u>
4-Trifluoromethyl-Phenylammonium chloride, 99%, for perovskite solar cell 4-三氟甲基-苯基氯化铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242295</u>
1,4-Diazabicyclo[2.2.2]octane-1,4-diium chloride, 99.8%, for perovskite solar cell 1,4-二氮杂环[2.2.2]辛烷-1,4-二氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242315</u>
Pyrrolidinium chloride, 99.8%, for perovskite solar cell 氯化吡咯烷, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242308</u>
N,N-Diethylethane-1,2-diammonium chloride, 99%, for perovskite solar cell N,N-二乙基乙烷-1,2-氯化二铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242306</u>
tert-Octylammonium chloride, 99.8%, for perovskite solar cell 叔辛基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242303</u>
2-Pyrrolidin-1-ium-1-ylethylammonium chloride, 99.8%, for perovskite solar cell 2-吡咯烷-1-乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242307</u>
Quinuclidin-1-ium iodide, 99.8%, for perovskite solar cell 奎宁碘, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242305</u>
N,N-Diethylpropane-1,3-diammonium chloride, 99.8%, for perovskite solar cell N,N-二乙基丙烷-1,3-氯化二铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242306</u>
tert-Octylammonium chloride, 99.8%, for perovskite solar cell 叔辛基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242303</u>
2-Pyrrolidin-1-ium-1-ylethylammonium chloride, 99.8%, for perovskite solar cell 2-吡咯烷-1-乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242307</u>
N,N-Dimethylpropane- 1,3-diammonium chloride, 99.8%, for perovskite solar cell N, N-二甲基丙烷-1,3-氯化二铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242305</u>
N,N-Diethylpropane-1,3-diammonium chloride, 99.8%, for perovskite solar cell N,N-二乙基丙烷-1,3-氯化二铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242302</u>
Neo-pentylammonium chloride, 99.8%, for perovskite solar cell 新戊基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242304</u>



百灵威钙钛矿太阳能电池材料



2-Methoxyethylammonium chloride, 99.8%, for perovskite solar cell

2-甲氧基乙基氯化铵, 99.8%, 用于钙钛矿太阳能电池

/

[9242301](#)

■ 溴酸盐

品名	CAS	货号
Formamidinium hydrobromide, 99.999%, Low water content, for perovskite solar cell	146958-06-7	1862413
甲脒氢溴酸盐, 99.999%, 低含水量, 钙钛矿太阳能电池用		
Guanidine hydrobromide, 99.8%	19244-98-5	1284333
胍氢溴酸盐, 99.8%		
Isopropylamine hydrobromide, 99.8%	29552-58-7	2451181
异丙胺氢溴酸盐, 99.8%		
Diisopropylamine hydrobromide, 99%	30321-74-5	9186327
二异丙胺氢溴酸盐, 99%		
Benzylamine hydrobromide, 98%, for perovskite solar cell	37488-40-7	1474645
苄胺氢溴酸盐, 98%, 用于钙钛矿太阳能电池		
Dimethylamine Hydrobromide, 99.8%	6912-12-5	233006
二甲基胺氢溴酸盐, 99.8%		
Imidazole hydrobromide, 99.8%	101023-55-6	2074420
咪唑氢溴酸盐, 99.8%		
Imidazole hydrobromide, 99.8%, for perovskite solar cell	101023-55-6	987409
咪唑氢溴酸盐, 99.8%, 用于钙钛矿太阳能电池		
Dibutylamine hydrobromide, 99.8%, for perovskite solar cell	10435-44-6	9189801
二丁胺氢溴酸盐, 99.8%, 用于钙钛矿太阳能电池		
Propylamine Hydrobromide, 99.8%	4905-83-3	2451205
丙胺氢溴酸盐, 99.8%		
N,N-dimethylethylenediamine dihydrobromide, 99.8%	1245570-04-0	9111736
N,N-二甲基乙二胺二氢溴酸盐, 99.8%		
Aniline hydrobromide, 99.9%, for perovskite solar cell, purified four times	542-11-0	547813
苯胺氢溴酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化		
Ethylamine hydrobromide, 99.9%, for perovskite solar cell, purified four times	593-55-5	502226
乙胺氢溴酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化		
Tyramine hydrochloride, 99%	60469-70-7	2074383
酪胺盐酸盐, 99%		
Ethylenediamine Dihydrobromide, 99.8%	624-59-9	2074413
乙二胺二氢溴酸盐, 99.8%		



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百灵威钙钛矿太阳能电池材料



Methylamine hydrobromide, 99.9%, for perovskite solar cell 甲胺氢溴酸盐, 99.9%, 用于钙钛矿太阳能电池	6876-37-5	<u>908360</u>
Hexylamine Hydrobromide, 99.8% 己胺氢溴酸盐, 99.8%	7334-95-4	<u>2749530</u>
Hexylamine Hydrobromide, 99.9%, for perovskite solar cell, purified four times 己胺氢溴酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	7334-95-4	<u>987690</u>
Isobutylamine hydrobromide, 99.9%, for perovskite solar cell, purified four times 异丁胺氢溴酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	74098-36-5	<u>2074421</u>
n-Octylamine Hydrobromide, 99.8% 正辛胺氢溴酸盐, 99.8%	14846-47-0	<u>123924</u>
n-Octylamine hydrobromide, 99.9%, for perovskite solar cell, purified four times 正辛胺氢溴酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	14846-47-0	<u>949570</u>
Butylamine Hydrobromide, 99.8% 丁基胺氢溴酸盐, 99.8%	15567-09-6	<u>2074382</u>
2-(4-Fluorophenyl)ethylamine hydrobromide, 99%, for perovskite solar cell 2-(4-氟苯基)乙胺氢溴酸盐, 99%, 用于钙钛矿太阳能电池	1807536-06-6	<u>2749527</u>
1,4-Diaminobutane Dihydrobromide, 99.8% 1,4-二氨基丁烷二氢溴酸盐, 99.8%	18773-04-1	<u>9067875</u>
Dodecylamine Hydrobromide, 99.8% 十二胺氢溴酸盐, 99.8%	26204-55-7	<u>2451930</u>
Acetamidinium bromide, 99%, for perovskite solar cell 溴化乙酰脒, 99%, 用于钙钛矿太阳能电池	1040352-82-6	<u>2794415</u>
4-Methoxy-phenylammonium bromide, 99.8%, for perovskite solar cell 4-甲氧基苯基溴化铵, 99.8%, 用于钙钛矿太阳能电池	116436-31-8	<u>9242326</u>
4-Hydroxyphenethylammonium bromide, 99.8%, for perovskite solar cell 4-羟基苯乙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	17605-58-2	<u>9242337</u>
Cyclohexanemethylamine hydrobromide, 99.8%, for perovskite solar cell 环己基甲基溴化铵, 99.8%, 用于钙钛矿太阳能电池	2248169-64-2	<u>9207222</u>
Hexane-1,6-diammonium bromide, 99.8%, for perovskite solar cell 己烷-1,6-溴化二铵, 99.8%, 用于钙钛矿太阳能电池	24731-81-5	<u>9242344</u>
Trimethylammonium bromide, 99.8%, for perovskite solar cell 三甲基溴化铵, 99.8%, 用于钙钛矿太阳能电池	2840-24-6	<u>1822423</u>
Diphenylammonium bromide, 99.8%, for perovskite solar cell 二苯基溴化铵, 99.8%, 用于钙钛矿太阳能电池	30910-47-5	<u>9242341</u>



百灵威钙钛矿太阳能电池材料



2-Phenylethylamine hydrobromide, 99.8%, for perovskite solar cell 苯乙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	53916-94-2	<u>999656</u>
Diethylamine hydrobromide, 99.8%, for perovskite solar cell 二乙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	6274-12-0	<u>984882</u>
5-Ammonium valeric acid bromide, 99%, for perovskite solar cell 5-戊酸溴化铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242220</u>
3-Ammonium propionic acid bromide, 99.8%, for perovskite solar cell 3-丙酸溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242219</u>
4-Ammonium butyric acid bromide, 99.8%, for perovskite solar cell 4-丁酸溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242222</u>
5-Azaspiro[4.4]nonan-5-ium bromide, 99.8%, for perovskite solar cell 5-氮杂螺环[4.4]壬-5-溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242231</u>
Cyclohexylammonium bromide, 99.8%, for perovskite solar cell 环己基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242329</u>
n-Pentylammonium bromide, 99.8%, for perovskite solar cell n-戊基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242324</u>
4-Trifluoromethyl-benzylammonium bromide, 99%, for perovskite solar cell 4-三氟甲基苄基溴化铵, 99%, 用于钙钛矿太阳能电池	/	<u>9242328</u>
Iso-Butylammonium bromide, 99.8%, for perovskite solar cell 异丁基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242319</u>
4-Fluoro-phenylammonium bromide, 99.8%, for perovskite solar cell 4-氟苯基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242323</u>
4-Methylphenethylammonium bromide, 99.8%, for perovskite solar cell 4-甲基苄基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242316</u>
Benzylammonium bromide, 99.8%, for perovskite solar cell 苄基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242320</u>
4-Trifluoromethyl-phenylammonium bromide, 99.8%, for perovskite solar cell 4-三氟甲基苯基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242327</u>
4-Chlorobenzylammonium bromide, 99.8%, for perovskite solar cell 4-氯苄基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242317</u>
4-Chlorophenylammonium bromide, 99.8%, for perovskite solar cell 4-氯苯基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242338</u>
4-Chlorophenethylammonium bromide, 99.8%, for perovskite solar cell 4-氯苄乙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242339</u>



百灵威钙钛矿太阳能电池材料



Pyrrolidinium bromide, 99.8%, for perovskite solar cell 吡咯烷溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242331
Di-Propylammonium bromide, 99.8%, for perovskite solar cell 二丙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242340
2-Thiopheneethylammonium bromide, 99.8%, for perovskite solar cell 2-噻吩甲基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242336
Neo-pentylammonium bromide, 99.8%, for perovskite solar cell 新戊基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242333
N,N-Diethylethane-1,2-diammonium bromide, 99%, for perovskite solar cell N,N-二乙基乙烷-1,2-溴化二铵, 99%, 用于钙钛矿太阳能电池	/	9242342
Morpholinium bromide, 99%, for perovskite solar cell 溴化吗啉, 99%, 用于钙钛矿太阳能电池	/	9242343
1,4-Diazabicyclo[2,2,2]octane-1,4-diium bromide, 99.8%, for perovskite solar cell 1,4-二氮杂双环[2,2,2]辛烷-1,4-溴化二铵, 99.8%, 用于钙钛矿太阳能电池	/	9242348
tert-Octylammonium bromide, 99.8%, for perovskite solar cell 叔辛基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242349
2-Methoxyethylammonium bromide, 99.8%, for perovskite solar cell 2-甲氧基乙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242345
2-Pyrrolidin-1-ium-1-ylethylammonium bromide, 99.8%, for perovskite solar cell 2-吡咯烷-1-溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	9242346
N,N-Diethylpropane-1,3-diammonium bromide, 99.8%, for perovskite solar cell N,N-二乙基丙烷-1,3-溴化二铵, 99.8%, 用于钙钛矿太阳能电池	/	9242325

■ 硼酸盐

品名	CAS	货号
Methylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 甲胺四氟硼酸盐, 99.8%, 用于钙钛矿太阳能电池	42539-74-2	2451183
Quinuclidin-1-ium tetrafluoroborate, 99.8%, for perovskite solar cell 奎宁-1-四氟硼酸盐, 99.8%, 用于钙钛矿太阳能电池	936025-25-1	9242262
2-Pyrrolidin-1-ium-1-ylethylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 1-(2-氨基乙基)吡咯烷-1-四氟硼酸盐, 99.8%, 用于钙钛矿太阳能电池	/	9242256
t-Butylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 叔丁基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	24418-92-6	9242278



百灵威钙钛矿太阳能电池材料



Guanidinium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸胍, 99.8%, 用于钙钛矿太阳能电池	36595-00-3	270924
Benzylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 苄基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	41579-49-1	9242280
n-Propylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸正丙胺, 99.8%, 用于钙钛矿太阳能电池	71852-75-0	9242264
Cyclohexylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 环己基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	71893-43-1	9242277
n-Octylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 正辛基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	790269-39-5	9242271
4-Methoxy-phenylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 4-甲氧基苄基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	9242257
N,N-Diethylethane-1,2-diammonium tetrafluoroborate, 99%, for perovskite solar cell N、N-二乙基乙烷-1,2-四氟硼酸二铵, 99%, 用于钙钛矿太阳能电池	/	9242255
Morpholinium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸吗啉, 99.8%, 用于钙钛矿太阳能电池	/	9242259
Ethylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 乙基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	9242274
Imidazolium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸咪唑, 99.8%	/	9242272
N-Hexylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸正己基铵, 99.8%, 用于钙钛矿太阳能电池	/	9242273
Phenethylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸苄乙基铵, 99.8%, 用于钙钛矿太阳能电池	/	9242270
Pyrrolidinium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸吡咯烷, 99.8%, 用于钙钛矿太阳能电池	/	9242263
Di-iso-propylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 二异丙基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	9242261
Hexane-1,6-diammonium tetrafluoroborate, 99.8%, for perovskite solar cell 己烷-1,6-四氟硼酸二铵, 99.8%, 用于钙钛矿太阳能电池	/	9242260
tert-Octylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 叔辛基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	9242281



百灵威钙钛矿太阳能电池材料



i-Pentylammonium tetrafluoroborate, 99.8%, for perovskite solar cell i-戊基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242284</u>
Neo-pentylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 新戊基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242283</u>
Pyridinium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸吡啶鎓, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242282</u>
n-Butylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 正丁基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242279</u>
Diethylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 乙基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242275</u>
Ethane-1,2- diammonium tetrafluoroborate, 99.8%, for perovskite solar cell 乙烷-1,2-四氟硼酸二铵, 99.8%, 用于钙钛矿太阳能电池	/	<u>9242285</u>

■ 其他非金属盐

品名	CAS	货号
Methylamine trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸甲胺, 99.8%, 用于钙钛矿太阳能电池	107326-29-4	<u>9075798</u>
Butane-1,4-diammonium trifluoroacetate, 99.8%, for perovskite solar cell 丁烷-1,4-三氟乙酸二铵, 99.8%, 用于钙钛矿太阳能电池	1379664-30-8	<u>9242238</u>
Dipropylammonium trifluoroacetate, 99.8%, for perovskite solar cell 二丙铵三氟乙酸盐, 99.8%, 用于钙钛矿太阳能电池	143651-07-4	<u>9189895</u>
n-Butylammonium acetate, 99.8%, for perovskite solar cell 乙酸正丁胺, 99.8%, 用于钙钛矿太阳能电池	1641-36-7	<u>9242242</u>
Pyrrolidinium thiocyanate, 99.8%, for perovskite solar cell 硫氰酸吡咯烷, 99.8%, 用于钙钛矿太阳能电池	217309-80-3	<u>9242254</u>
Ethylammonium thiocyanate, 99.8%, for perovskite solar cell 硫氰酸乙基铵, 99.8%, 用于钙钛矿太阳能电池	25153-19-9	<u>2059619</u>
Methylammonium hexafluorophosphate, 99.8%, for perovskite solar cell 六氟磷酸甲胺, 99.8%, 用于钙钛矿太阳能电池	28302-50-3	<u>9075783</u>
4-tert-Butylpyridine, 96% 4-叔丁基吡啶, 96%	3978-81-2	<u>441738</u>
Ethyl isopropyl sulfone, 99.99%, for perovskite solar cell 乙基异丙基砜, 99.99%, 用于钙钛矿太阳能电池	4853-75-2	<u>473941</u>



百灵威钙钛矿太阳能电池材料



Benzylammonium thiocyanate, 99.8%, for perovskite solar cell 硫氰酸苄铵, 99.8%, 用于钙钛矿太阳能电池	51571-89-2	9242253
Isopentylamine hydrochloride, 99.8%, for perovskite solar cell 盐酸异戊胺, 99.8%, 用于钙钛矿太阳能电池	541-23-1	618907
Neo-pentylammonium thiocyanate, 99.8%, for perovskite solar cell 新戊基硫氰酸铵, 99.8%, 用于钙钛矿太阳能电池	61540-71-4	9242251
Methylamine cyanate, 99.8%, for perovskite solar cell 甲胺氰酸盐, 99.8%, 用于钙钛矿太阳能电池	63405-91-4	2740816
Diisopropylamine hydrochloride, 99.8%, for perovskite solar cell 盐酸二异丙胺, 99.8%, 用于钙钛矿太阳能电池	819-79-4	228012
5-Azaspiro[4.4]nonan-5-ium hexafluorophosphate, 99.8%, for perovskite solar cell 5-氮杂螺环[4.4]壬-5-六氟磷酸铵, 99.8%, 用于钙钛矿太阳能电池	/	9242229
Hexane-1,6-diammonium trifluoroacetate, 99.8%, for perovskite solar cell 己烷-1,6-三氟乙酸二铵, 99.8%, 用于钙钛矿太阳能电池	/	9242234
Iso-propylammonium trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸异丙胺, 99.8%, 用于钙钛矿太阳能电池	/	9242239
Di-butylammonium trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸二丁胺, 99.8%, 用于钙钛矿太阳能电池	/	9242237
Di-isopropylammonium trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸二异丙基铵, 99.8%, 用于钙钛矿太阳能电池	/	9242241
2-Methoxyethylammonium trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸 2-甲氧基乙基铵, 99.8%, 用于钙钛矿太阳能电池	/	9242240
Ethylammonium trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸甲基铵, 99.8%, 用于钙钛矿太阳能电池	/	9242233
n-Propylammonium trifluoroacetate, 99.8%, for perovskite solar cell 三氟乙酸正丙胺, 99.8%, 用于钙钛矿太阳能电池	/	9242232
Ethylammonium formate, 99.8%, for perovskite solar cell 甲酸乙铵, 99.8%, 用于钙钛矿太阳能电池	/	9242243
Formamidinium hexafluorophosphate, 99.8%, for perovskite solar cell 六氟磷酸甲脒, 99.8%, 用于钙钛矿太阳能电池	/	9242244
5-Azaspiro[4.4]nonan-5-ium bis(trifluoromethane)sulfonimide, 99.8%, for perovskite solar cell 5-氮杂螺环[4.4]壬-5-二(三氟甲烷)磺酰亚胺, 99.8%, 用于钙钛矿太阳能电池	/	9242390



百灵威钙钛矿太阳能电池材料



■ 铅盐

品名	CAS	货号
Lead(II) iodide, 99.999%, for perovskite solar cell, super dry large crystal 碘化亚铅, 99.999%, 用于钙钛矿太阳能电池, 超干大晶体	10101-63-0	979463
Lead(II) acetate trihydrate, 99.998%, trace metal basis 乙酸铅(II)三水合物, 99.998%, 微量金属基	6080-56-4	910223
Lead(II) bromide, 99.999%, anhydrous, trace metals basis 二溴化铅, 99.999%, 无水, 痕量分析	10031-22-8	927140
Lead(II) chloride, 99.99%, anhydrous, trace metals basis 氯化铅(II), 99.99%, 无水, 痕量分析	7758-95-4	953759
Lead(II) chloride, 99% 氯化铅(II), 99%	7758-95-4	908845
Lead(II) chloride, 99.999%, for perovskite solar cell, super dry 氯化铅(II), 99.999%, 用于钙钛矿太阳能电池, 超干	7758-95-4	937228
Lead(II) bromide, 99.999%, for perovskite solar cell use, super dry 二溴化铅, 99.999%, 用于钙钛矿太阳能电池, 超干	10031-22-8	961337
Cesium Lead Triiodide, 99%, for perovskite solar cell 三碘化铅铯, 99%, 用于钙钛矿太阳能电池	18041-25-3	2451950
MAPbI ₃ , 99%, for perovskite solar cell MAPbI ₃ , 99%, 用于钙钛矿太阳能电池	/	9239501
FAPbBr ₃ , 99%, for perovskite solar cell FAPbBr ₃ , 99%, 用于钙钛矿太阳能电池	/	9239504
MAPbBr ₃ , 99%, for perovskite solar cell MAPbBr ₃ , 99%, 用于钙钛矿太阳能电池	/	9239502
FAPbI ₃ , 99%, for perovskite solar cell FAPbI ₃ , 99%, 用于钙钛矿太阳能电池	/	9239503

■ 铯盐

品名	CAS	货号
Cesium chloride, 99% 氯化铯, 99%	7647-17-8	281092
Cesium bromide, 99.999%, for perovskite solar cell, superdry 溴化铯, 99.999%, 用于钙钛矿太阳能电池, 超干	7787-69-1	988557



百灵威钙钛矿太阳能电池材料



Cesium chloride, 99.99% 氯化铯, 99.99%	7647-17-8	926782
Cesium iodide, 99.9%, trace metals basis 碘化铯, 99.9%, 微量金属基础	7789-17-5	977246
Cesium iodide, 99.999%, trace metals basis 碘化铯, 99.999%, 微量金属基础	7789-17-5	978812
Cesium iodide, 99.999%, for perovskite solar cell, superdry 碘化铯, 99.999%, 用于钙钛矿太阳能电池, 超干	7789-17-5	960510
Cesium chloride, 99.999%, for perovskite solar cell, superdry 氯化铯, 99.999%, 用于钙钛矿太阳能电池, 超干	7647-17-8	911393

■ 锡盐

品名	CAS	货号
Tin(II) bromide, 99.999%, for perovskite solar cell 溴化锡(II), 99.999%, 用于钙钛矿太阳能电池	10031-24-0	604754
Tin(IV) iodide, 99.999%, anhydrous, trace metals basis 四碘化锡(IV), 99.999%, 无水, 痕量分析	7790-47-8	937239
Tin(II) iodide, 99.999%, for perovskite solar cell 碘化锡(II), 99.999%, 用于钙钛矿太阳能电池	10294-70-9	967129

■ 铋盐

品名	CAS	货号
Bismuth(III) iodide, 98%, Anhydrous 碘化铋, 98%, 无水的	7787-64-6	164264
Bismuth(III) iodide, 99.999%, trace metals basis 碘化铋, 99.999%, 微量金属基础	7787-64-6	993003
1,4-Diazabicyclo[2,2,2]octane-1,4-diium tetrafluoroborate, 99.8%, for perovskite solar cell 1,4-二氮杂环[2,2,2]辛烷-1,4-四氟硼酸二钠, 99.8%, 用于钙钛矿太阳能电池	88935-43-7	9242276

■ 导电基板

导电玻璃是钙钛矿太阳能电池的重要组件之一，在电池中的作用是收集和运输电子，同时还能传递和控制光线。

ITO 导电玻璃是指在钠钙基或硅硼基片玻璃的基础上，利用磁控溅射的方法镀上一层氧化铟锡膜加工而成的



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百灵威钙钛矿太阳能电池材料



玻璃，具有电导率高、透光率高及膜层牢固的优点。表面电阻率低至 7-9 Ω/sq ，透光率可达 93%+。

FTO 导电玻璃是指掺杂氟的二氧化锡导电玻璃，具有膜层硬、化学和力学抵抗性等的优点。表面电阻率低至 6-8 Ω/sq 。透光率可达 90%。

品名	货号
ITO glass, L × W × thickness 100 mm × 100 mm × 1.1 mm, surface resistivity ~15 Ω/sq , transmittance: ≥93%	
ITO 导电玻璃, 长*宽*厚度: 100 mm × 100 mm × 1.1 mm, 表面电阻率: ~15 Ω/sq , 透光率: ≥93%	9250411
FTO glass, L × W × thickness 15 mm × 15 mm × 2.2 mm, surface resistivity 6-8 ω/sq , transmittance: 81%-83%, 1 ea=36 pcs	
FTO 导电玻璃, 长*宽*厚度: 15 mm × 15 mm × 2.2 mm, 表面电阻率: 6-8 Ω/sq , 透光率: 81%-83%, 1 EA=36 小片	9250408
FTO glass, L × W × thickness 15 mm × 15 mm × 2.2 mm, surface resistivity 12-14 ω/sq , transmittance: 88%-90%, 1 ea=36 pcs	
FTO 导电玻璃, 长*宽*厚度: 15 mm × 15 mm × 2.2 mm, 表面电阻率: 12-14 Ω/sq , 透光率: 88%-90%, 1 EA=36 小片	9250409
ITO glass, L × W × thickness 15 mm × 15 mm × 1.1 mm, surface resistivity ~15 ω/sq , transmittance: ≥93%, 1 ea=36 pcs	
ITO 导电玻璃, 长*宽*厚度: 15 mm × 15 mm × 1.1 mm, 表面电阻率: ~15 Ω/sq , 透光率: ≥93%, 1 EA=36 小片	9250412
ITO glass, L × W × thickness 15 mm × 15 mm × 1.1 mm, surface resistivity 7~9 ω/sq , transmittance: ≥91%, 1 ea=36 pcs	
ITO 导电玻璃, 长*宽*厚度: 15 mm × 15 mm × 1.1 mm, 表面电阻率: 7-9 Ω/sq , 透光率: ≥91%, 1 EA=36 小片	9250414
FTO glass, L × W × thickness 100 mm × 100 mm × 2.2 mm, surface resistivity 12-14 ω/sq , transmittance: 88%-90%	
FTO 导电玻璃, 长*宽*厚度: 100 mm × 100 mm × 2.2 mm, 表面电阻率: 12-14 Ω/sq , 透光率: 88%-90%	9250410
FTO glass, L × W × thickness 100 mm × 100 mm × 2.2 mm, surface resistivity 6-8 Ω/sq , transmittance: 81%-83%	
FTO 导电玻璃, 长*宽*厚度: 100 mm × 100 mm × 2.2 mm, 表面电阻率: 6-8 Ω/sq , 透光率: 81%-83%	9250407
ITO glass, L × W × thickness 100 mm × 100 mm × 1.1 mm, surface resistivity 7~9 ω/sq , transmittance: ≥91%	
ITO 导电玻璃, 长*宽*厚度: 100 mm × 100 mm × 1.1 mm, 表面电阻率: 7-9 Ω/sq , 透光率: ≥91%	9250413

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