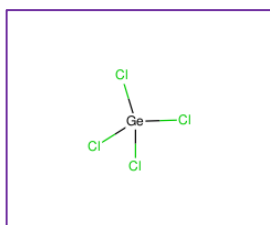


# 百灵威钙钛矿太阳能电池材料

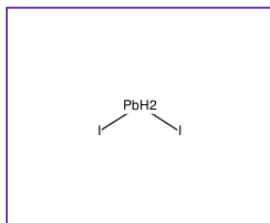


光伏发电是根据光生伏特效应原理，利用太阳能电池将太阳光能直接转化为电能。其中 p-n 结是太阳能电池的核心——钙钛矿层吸收光子产生电子空穴对，通过 p-n 结形成内建电场，产生电动势。太阳光入射到钙钛矿太阳能电池后，空穴和电子被注入到空穴传输层和电子传输层中，分别被对电极和透明电极收集，最终经外电路形成电流，完成发电循环。

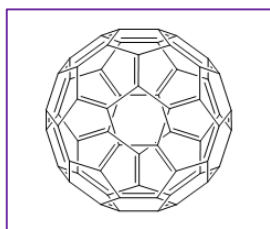
钙钛矿材料作为第三代太阳能电池的核心材料，可有效解决行业持续降本难及高温工艺的绿色难题，助力加速实现碳中和。



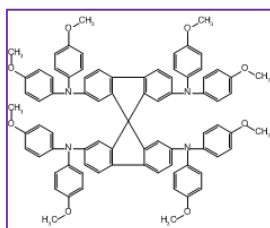
品名：Germanium(IV) chloride (99.99%-Ge) PURATREM  
四氯化锗，(99.99%-Ge)  
CAS：10038-98-9  
货号：[32-0650](#)



品名：Lead(II) iodide, 99.999%, for perovskite solar cell  
碘化亚铅，99.999%，用于钙钛矿太阳能电池,超干大晶体  
CAS：10101-63-0  
货号：[979463](#)



品名：Fullerene C60, 99.5%  
富勒烯 C60，99.5%  
CAS：99685-96-8  
货号：[371111](#)



品名：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'-螺二芴，99.5%  
CAS：207739-72-8  
货号：[965749](#)



# 百灵威钙钛矿太阳能电池材料



## ■ 浆料

SnO<sub>2</sub> 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 SnO<sub>2</sub> 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	<a href="#">908545</a>
Tin(IV) oxide, 3 - 6 nm, 5% in H <sub>2</sub> O colloidal dispersion 二氧化锡(IV), 3 - 6 nm, 5% 水胶体分散液	18282-10-5	<a href="#">911753</a>

## ■ 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	<a href="#">927751</a>
PEDOT: PSS ( CLEVIOS™ PH 1000 ), from Heraeus PEDOT:PSS, 型号为 1000, 来自贺利氏	155090-83-8	<a href="#">977557</a>
Nickel(II) oxide nanopowder, 99.9%, Including NiO, Ni <sub>2</sub> O <sub>3</sub> and NiOOH 纳米氧化镍(II), 99.9%, 包含 NiO, Ni <sub>2</sub> O <sub>3</sub> , NiOOH 三种组分	1313-99-1	<a href="#">903975</a>
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'-螺二芴, 98%	207739-72-8	<a href="#">920726</a>
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	<a href="#">9242254</a>
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	<a href="#">947622</a>
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'-螺二芴, 99.5%, 用于钙钛矿太阳能电池	207739-72-8	<a href="#">965749</a>
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	<a href="#">1769701</a>
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	<a href="#">1812309</a>
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	<a href="#">976751</a>



# 百灵威钙钛矿太阳能电池材料



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	<a href="#">986833</a>
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-芴], 98%	189363-47-1	<a href="#">1419044</a>
tert-Butylamine Hydrobromide, 99.8% 叔丁基胺氢溴酸盐, 99.8%	60469-70-7	<a href="#">2074383</a>
Ethylenediamine Dihydrobromide, 99.8% 乙二胺二氢溴酸盐, 99.8%	624-59-9	<a href="#">2074413</a>
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	<a href="#">1807396</a>
Lithium bis(trifluoromethanesulfonyl)imide, 99% 双(三氟甲磺酰)亚胺锂, 99%	90076-65-6	<a href="#">221472</a>
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	<a href="#">957827</a>
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	<a href="#">2739652</a>
Zinc phthalocyanine, 95% 酞菁锌, 95%	14320-04-8	<a href="#">111915</a>

## ■ 电子传输层试剂

品名	CAS	货号
Fullerene C70, 99% 富勒烯 C70, 99%	115383-22-7	<a href="#">112059</a>
Fullerene C60, 99.5% 富勒烯 C60, 99.5%	99685-96-8	<a href="#">371111</a>
Fullerene C60, 99.9% 富勒烯 C60, 99.9%	99685-96-8	<a href="#">940919</a>
Fullerene C70, 98% 富勒烯 C70, 98%	115383-22-7	<a href="#">954069</a>
Fullerene C60, 98% 富勒烯 C60, 98%	99685-96-8	<a href="#">966237</a>
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)亚胺), 99%	1447938-61-5	<a href="#">1769709</a>



# 百灵威钙钛矿太阳能电池材料



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	<a href="#"><u>2451957</u></a>
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	<a href="#"><u>2123640</u></a>
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	<a href="#"><u>9257404</u></a>
N,N,N',N'-Tetraphenylbenzidine, 98% N,N,N',N'-四苯基联苯胺, 98%	15546-43-7	<a href="#"><u>143076</u></a>
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	<a href="#"><u>2667615</u></a>
4-tert-Butylpyridine, 96% 4-叔丁基吡啶, 96%	3978-81-2	<a href="#"><u>441738</u></a>
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	<a href="#"><u>789343</u></a>
[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	<a href="#"><u>789344</u></a>
1-Ethyl-3-methylimidazolium tetrafluoroborate, 97% 1-乙基-3-甲基咪唑鎓四氟硼酸盐, 97%	143314-16-3	<a href="#"><u>916289</u></a>
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	<a href="#"><u>9264862</u></a>

## ■ 传输层试剂

品名	CAS	货号
Tris(pentafluorophenyl)borane, 97% 三(五氟苯基)硼, 97%	1109-15-5	<a href="#"><u>116849</u></a>
Sodium bis(trifluoromethanesulfonyl)imide, 98% 双(三氟甲磺酰基)酰亚胺钠, 98%	91742-21-1	<a href="#"><u>1467240</u></a>
1-Ethyl-3-methylimidazolium tetrafluoroborate, 99% 1-乙基-3-甲基咪唑鎓四氟硼酸盐, 99%	143314-16-3	<a href="#"><u>191819</u></a>
Lithium bis(trifluoromethanesulfonyl)imide, 98% 双(三氟甲磺酰基)酰亚胺锂, 98%	90076-65-6	<a href="#"><u>200644</u></a>
1-Butyl-3-methylimidazolium tetrafluoroborate, 99% 1-丁基-3-甲基咪唑鎓四氟硼酸盐, 99%	174501-65-6	<a href="#"><u>200836</u></a>



# 百灵威钙钛矿太阳能电池材料



Lithium bis(trifluoromethanesulfonyl)imide, 99% 双(三氟甲磺酰)亚胺锂, 99%	90076-65-6	<a href="#">221472</a>
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	<a href="#">262493</a>
2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 95% 2,3,5,6-四氟-7,7,8,8-四氰二甲苯醌, 95%	29261-33-4	<a href="#">576478</a>
Lithium bis(fluorosulfonyl)amide, 99% 双(氟磺酰)亚胺锂, 99%	171611-11-3	<a href="#">9005856</a>
Lithium hexafluorophosphate, 99% 六氟磷酸锂, 99%	21324-40-3	<a href="#">935807</a>
1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide, 99% 1-丁基-3-甲基咪唑双三氟甲磺酰亚胺盐, 99%	174899-83-3	<a href="#">966165</a>
Zinc bis(trifluoromethylsulfonyl)imide, 97% 二[双(三氟甲基磺酰)亚胺]锌, 97%	168106-25-0	<a href="#">988794</a>

## ■ 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  $\Omega/\text{sq}$ ，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  $\Omega/\text{sq}$ 。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 $\Omega/\text{sq}$ , transmittance: ≥93%	
ITO 导电玻璃, 长*宽*厚度: 100 mm × 100 mm × 1.1 mm, 表面电阻率: ~15 $\Omega/\text{sq}$ , 透光率: ≥93%	<a href="#">9250411</a>
FTO glass, L × W × thickness 15 mm × 15 mm × 2.2 mm, surface resistivity 6-8 $\omega/\text{sq}$ , 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 $\Omega/\text{sq}$ , 透光率: 81%-83%, 1 EA=36 小片	<a href="#">9250408</a>
FTO glass, L × W × thickness 15 mm × 15 mm × 2.2 mm, surface resistivity 12-14 $\omega/\text{sq}$ , 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 $\Omega/\text{sq}$ , 透光率: 88%-90%, 1 EA=36 小片	<a href="#">9250409</a>



# 百灵威钙钛矿太阳能电池材料



ITO glass, L × W × thickness 15 mm × 15 mm × 1.1 mm, surface resistivity ~15Ω/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 7~9Ω/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 7~9Ω/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](#)

## 碘酸盐

品名	CAS	货号
Imidazole hydroiodide, 98% 咪唑氢碘酸盐, 98%	68007-08-9	<a href="#">1878902</a>
Formamidine hydroiodide, 98% 甲脒氢碘酸盐, 98%	879643-71-7	<a href="#">1862414</a>
Formamidine hydroiodide, 99.99%, for perovskite solar cell 甲脒氢碘酸盐, 99.99%, 钙钛矿电池用	879643-71-7	<a href="#">956035</a>
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	<a href="#">9005528</a>
Diisopropylamine Hydroiodide, 99.8% 二异丙胺氢碘酸盐, 99.8%	132396-99-7	<a href="#">9117165</a>
Dipropylamine hydriodide, 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	<a href="#">9189800</a>
Diethylamine hydroiodide, 98% 二乙胺氢碘酸盐, 98%	19833-78-4	<a href="#">9005496</a>



# 百灵威钙钛矿太阳能电池材料



Guanidine hydroiodide, 98% 胍氢碘酸盐, 98%	19227-70-4	<a href="#"><u>9005510</u></a>
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	<a href="#"><u>9005511</u></a>
Butylamine hydroiodide, 98% 丁胺氢碘酸盐, 98%	36945-08-1	<a href="#"><u>9005453</u></a>
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	<a href="#"><u>986758</u></a>
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	<a href="#"><u>9005512</u></a>
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	<a href="#"><u>9005467</u></a>
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	<a href="#"><u>9005504</u></a>
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	<a href="#"><u>9005491</u></a>
Dimethylamine hydroiodide, 98% 二甲胺氢碘酸盐, 98%	51066-74-1	<a href="#"><u>949294</u></a>
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	<a href="#"><u>2749525</u></a>
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	<a href="#"><u>2764061</u></a>
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	<a href="#"><u>2764053</u></a>
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	<a href="#"><u>9026144</u></a>
tert-Butylamine hydroiodide, 98% 叔丁胺氢碘酸盐, 98%	39557-45-4	<a href="#"><u>9005454</u></a>
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	<a href="#"><u>994020</u></a>
Pyrrolidine hydroiodide, 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	<a href="#"><u>2451201</u></a>
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	<a href="#"><u>2749506</u></a>



# 百灵威钙钛矿太阳能电池材料



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	<a href="#"><u>1862360</u></a>
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	<a href="#"><u>9239499</u></a>
Ethylenediamine Dihydroiodide, 99.8% 乙二胺二氢碘酸盐, 99.8%	5700-49-2	<a href="#"><u>335587</u></a>
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	<a href="#"><u>9188267</u></a>
1,4-Diaminobutane Dihydroiodide, 99.8% 1,4-丁二胺二氢碘酸盐, 99.8%	916849-52-0	<a href="#"><u>9067876</u></a>
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	<a href="#"><u>9242182</u></a>
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	<a href="#"><u>9242192</u></a>
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	<a href="#"><u>9242197</u></a>
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	<a href="#"><u>9242203</u></a>
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	<a href="#"><u>2451931</u></a>
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	<a href="#"><u>9242204</u></a>
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	<a href="#"><u>246694</u></a>
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	<a href="#"><u>9117173</u></a>
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	<a href="#"><u>2451929</u></a>
4-Fluoroaniline hydroiodide, 99.8%, for perovskite solar cell 4-氟碘化苯铵, 99.8%, 用于钙钛矿太阳能电池	85734-19-6	<a href="#"><u>9116777</u></a>
4-Methoxyphenethylammonium iodide, 99.8% 4-甲氧基苯乙基碘化铵, 99.8%	/	<a href="#"><u>9242184</u></a>
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	/	<a href="#"><u>9242181</u></a>





# 百灵威钙钛矿太阳能电池材料



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	/	<a href="#"><u>9239500</u></a>
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	/	<a href="#"><u>9242183</u></a>
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	/	<a href="#"><u>9242187</u></a>
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	/	<a href="#"><u>9242188</u></a>
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	/	<a href="#"><u>9242189</u></a>
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	/	<a href="#"><u>9242191</u></a>
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	/	<a href="#"><u>9242201</u></a>
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	/	<a href="#"><u>9242200</u></a>
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	/	<a href="#"><u>9242196</u></a>
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	/	<a href="#"><u>9242198</u></a>
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	/	<a href="#"><u>9242194</u></a>
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	/	<a href="#"><u>9242199</u></a>
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	/	<a href="#"><u>9242190</u></a>
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	/	<a href="#"><u>9242209</u></a>
1,4-Diazabicyclo[2,2,2]octane-1,4-dium 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%	/	<a href="#"><u>9242208</u></a>
4-Trifluoromethyl-benzylammonium iodide, 99.8%, for perovskite solar cell 4-三氟甲基苄基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#"><u>9242202</u></a>



# 百灵威钙钛矿太阳能电池材料



tert-Octylammonium iodide, 99.8%, for perovskite solar cell 叔辛基碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#">9242210</a>
N,N-Dimethylpropane- 1,3-diammonium iodide, 99.8%, for perovskite solar cell 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	/	<a href="#">9242211</a>
N,N-Dimethylpropane- 1,3-diammonium iodide, 99.8%, for perovskite solar cell 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	/	<a href="#">9242212</a>
3-Ammonium propionic acid iodide, 99%, for perovskite solar cell 3-丙酸碘化铵, 99%, 用于钙钛矿太阳能电池	/	<a href="#">9242223</a>
4-Ammonium butyric acid iodide, 99.8%, for perovskite solar cell 4-丁酸碘化铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#">9242221</a>
4-Bromo-N,N-bis(4-iodophenyl)aniline, 99%, for perovskite solar cell 4-溴-N,N-双(4-碘苯基)苯胺, 99%, 用于钙钛矿太阳能电池	/	<a href="#">9242217</a>

## ■ 盐酸盐

品名	CAS	货号
Formamidine hydrochloride, 98% 甲脒盐酸盐, 98%	6313-33-3	<a href="#">468357</a>
Formamidine hydrochloride, 99.9%, for perovskite solar cell, purified four times 甲脒盐酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	6313-33-3	<a href="#">921418</a>
Propylamine hydrochloride, 98% 丙胺盐酸盐, 98%	556-53-6	<a href="#">509987</a>
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	<a href="#">143003</a>
Methylamine hydrochloride, 99% 甲胺盐酸盐, 99%	593-51-1	<a href="#">128725</a>
Methylamine hydrochloride, 99.9%, for perovskite solar cell, purified four times 甲胺盐酸盐, 99.9%, 用于钙钛矿太阳能电池, 四次纯化	593-51-1	<a href="#">948868</a>
Di-Propylammonium chloride, 99.8%, for perovskite solar cell 二丙基氯化铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#">9242300</a>
Morpholine hydrochloride, 98% 吗啉盐酸盐, 98%	10024-89-2	<a href="#">247167</a>
1,3-Diaminopropane Dihydrochloride, 97% 1,3-二氨基丙烷二盐酸盐, 97%	10517-44-9	<a href="#">533629</a>



# 百灵威钙钛矿太阳能电池材料



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	<a href="#"><u>9188289</u></a>
Isopropylamine Hydrochloride, 98% 异丙基氨盐酸盐, 98%	15572-56-2	<a href="#"><u>511053</u></a>
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	<a href="#"><u>479976</u></a>
2-Fluoroethan-1-amine hydrochloride, 98% 2-氟代乙-1-胺盐酸盐, 98%	460-08-2	<a href="#"><u>485979</u></a>
Tyramine hydrochloride, 99% 酪胺盐酸盐, 99%	60-19-5	<a href="#"><u>924365</u></a>
5-Aminovaleric acid hydrochloride, 99%, for perovskite solar cell 5-氨基戊酸盐盐酸盐, 99%, 用于钙钛矿太阳能电池	627-95-2	<a href="#"><u>951829</u></a>
Dibutylamine Hydrochloride, 98% 二丁胺盐酸盐, 98%	6287-40-7	<a href="#"><u>131210</u></a>
4-Chlorobenzyl chloride, 99% 4-氯苄氯, 99%	104-83-6	<a href="#"><u>153013</u></a>
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	<a href="#"><u>9242298</u></a>
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	<a href="#"><u>1212059</u></a>
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	<a href="#"><u>1573059</u></a>
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	/	<a href="#"><u>9242299</u></a>
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	/	<a href="#"><u>9242230</u></a>
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	/	<a href="#"><u>9242292</u></a>
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	/	<a href="#"><u>9242291</u></a>
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	/	<a href="#"><u>9242289</u></a>
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	/	<a href="#"><u>9242294</u></a>



# 百灵威钙钛矿太阳能电池材料



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	/	<a href="#"><u>9242293</u></a>
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	/	<a href="#"><u>9242296</u></a>
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	/	<a href="#"><u>9242295</u></a>
1,4-Diazabicyclo[2.2.2]octane-1,4-dium 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	/	<a href="#"><u>9242315</u></a>
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	/	<a href="#"><u>9242308</u></a>
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	/	<a href="#"><u>9242306</u></a>
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	/	<a href="#"><u>9242303</u></a>
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	/	<a href="#"><u>9242307</u></a>
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	/	<a href="#"><u>9242305</u></a>
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	/	<a href="#"><u>9242306</u></a>
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	/	<a href="#"><u>9242303</u></a>
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	/	<a href="#"><u>9242307</u></a>
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	/	<a href="#"><u>9242305</u></a>
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	/	<a href="#"><u>9242302</u></a>
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	/	<a href="#"><u>9242304</u></a>
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	/	<a href="#"><u>9242301</u></a>



# 百灵威钙钛矿太阳能电池材料



## ■ 溴酸盐

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



# 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	<a href="#"><u>908360</u></a>
Hexylamine Hydrobromide, 99.8% 己胺氢溴酸盐, 99.8%	7334-95-4	<a href="#"><u>2749530</u></a>
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	<a href="#"><u>987690</u></a>
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	<a href="#"><u>2074421</u></a>
n-Octylamine Hydrobromide, 99.8% 正辛胺氢溴酸盐, 99.8%	14846-47-0	<a href="#"><u>123924</u></a>
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	<a href="#"><u>949570</u></a>
Butylamine Hydrobromide, 99.8% 丁基胺氢溴酸盐, 99.8%	15567-09-6	<a href="#"><u>2074382</u></a>
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	<a href="#"><u>2749527</u></a>
1,4-Diaminobutane Dihydrobromide, 99.8% 1,4-二氨基丁烷二氢溴酸盐, 99.8%	18773-04-1	<a href="#"><u>9067875</u></a>
Dodecylamine Hydrobromide, 99.8% 十二胺氢溴酸盐, 99.8%	26204-55-7	<a href="#"><u>2451930</u></a>
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	<a href="#"><u>2794415</u></a>
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	<a href="#"><u>9242326</u></a>
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	<a href="#"><u>9242337</u></a>
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	<a href="#"><u>9207222</u></a>
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	<a href="#"><u>9242344</u></a>
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	<a href="#"><u>1822423</u></a>



# 百灵威钙钛矿太阳能电池材料



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	<a href="#"><u>9242341</u></a>
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	<a href="#"><u>999656</u></a>
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	<a href="#"><u>984882</u></a>
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	/	<a href="#"><u>9242220</u></a>
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	/	<a href="#"><u>9242219</u></a>
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	/	<a href="#"><u>9242222</u></a>
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	/	<a href="#"><u>9242231</u></a>
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	/	<a href="#"><u>9242329</u></a>
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	/	<a href="#"><u>9242324</u></a>
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	/	<a href="#"><u>9242328</u></a>
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	/	<a href="#"><u>9242319</u></a>
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	/	<a href="#"><u>9242323</u></a>
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	/	<a href="#"><u>9242316</u></a>
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	/	<a href="#"><u>9242320</u></a>
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	/	<a href="#"><u>9242327</u></a>
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	/	<a href="#"><u>9242317</u></a>
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	/	<a href="#"><u>9242338</u></a>



# 百灵威钙钛矿太阳能电池材料



4-Chlorophenethylammonium bromide, 99.8%, for perovskite solar cell 4-氯苯乙基溴化铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#">9242339</a>
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	/	<a href="#">9242331</a>
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	/	<a href="#">9242340</a>
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	/	<a href="#">9242336</a>
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	/	<a href="#">9242333</a>
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	/	<a href="#">9242342</a>
Morpholinium bromide, 99%, for perovskite solar cell 溴化吗啉, 99%, 用于钙钛矿太阳能电池	/	<a href="#">9242343</a>
1,4-Diazabicyclo[2,2,2]octane-1,4-dium 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	/	<a href="#">9242348</a>
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	/	<a href="#">9242349</a>
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	/	<a href="#">9242345</a>
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	/	<a href="#">9242346</a>
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	/	<a href="#">9242325</a>

## ■ 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	<a href="#">2451183</a>
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	<a href="#">9242262</a>
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	/	<a href="#">9242256</a>



北京  
T: +86 10 8284 8833  
E: jkinfo@jk-sci.com

上海  
T: +86 216163 8833  
E: jksh@jk-sci.com

广州  
T: +86 203888 9733  
E: jkgz@jk-sci.com

香港  
T: +852 2810 5022  
E: jkhk@jk-sci.com



jkchemical.com



# 百灵威钙钛矿太阳能电池材料



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	<a href="#">9242278</a>
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	<a href="#">270924</a>
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	<a href="#">9242280</a>
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	<a href="#">9242264</a>
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	<a href="#">9242277</a>
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	<a href="#">9242271</a>
4-Methoxy-phenylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 4-甲氧基苯基四氟硼酸铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#">9242257</a>
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	/	<a href="#">9242255</a>
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	/	<a href="#">9242259</a>
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	/	<a href="#">9242274</a>
Imidazolium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸咪唑, 99.8%	/	<a href="#">9242272</a>
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	/	<a href="#">9242273</a>
Phenethylammonium tetrafluoroborate, 99.8%, for perovskite solar cell 四氟硼酸苯乙基铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#">9242270</a>
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	/	<a href="#">9242263</a>
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	/	<a href="#">9242261</a>
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	/	<a href="#">9242260</a>



# 百灵威钙钛矿太阳能电池材料



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	/	<a href="#"><u>9242281</u></a>
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	/	<a href="#"><u>9242284</u></a>
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	/	<a href="#"><u>9242283</u></a>
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	/	<a href="#"><u>9242282</u></a>
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	/	<a href="#"><u>9242279</u></a>
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	/	<a href="#"><u>9242275</u></a>
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	/	<a href="#"><u>9242285</u></a>

## ■ 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	<a href="#"><u>9075798</u></a>
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	<a href="#"><u>9242238</u></a>
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	<a href="#"><u>9189895</u></a>
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	<a href="#"><u>9242242</u></a>
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	<a href="#"><u>9242254</u></a>
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	<a href="#"><u>2059619</u></a>
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	<a href="#"><u>9075783</u></a>
4-tert-Butylpyridine, 96% 4-叔丁基吡啶, 96%	3978-81-2	<a href="#"><u>441738</u></a>



# 百灵威钙钛矿太阳能电池材料



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	<a href="#"><u>473941</u></a>
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	<a href="#"><u>9242253</u></a>
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	<a href="#"><u>618907</u></a>
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	<a href="#"><u>9242251</u></a>
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	<a href="#"><u>2740816</u></a>
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	<a href="#"><u>228012</u></a>
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	/	<a href="#"><u>9242229</u></a>
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	/	<a href="#"><u>9242234</u></a>
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	/	<a href="#"><u>9242239</u></a>
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	/	<a href="#"><u>9242237</u></a>
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	/	<a href="#"><u>9242241</u></a>
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	/	<a href="#"><u>9242240</u></a>
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	/	<a href="#"><u>9242233</u></a>
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	/	<a href="#"><u>9242232</u></a>
Ethylammonium formate, 99.8%, for perovskite solar cell 甲酸乙铵, 99.8%, 用于钙钛矿太阳能电池	/	<a href="#"><u>9242243</u></a>
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	/	<a href="#"><u>9242244</u></a>
5-Azaspiro[4.4]nonan-5-ium bis(trifluoromethane)sulfonimide, 99.8% 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	/	<a href="#"><u>9242390</u></a>



# 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	<a href="#">979463</a>
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	<a href="#">910223</a>
Lead(II) bromide, 99.999%, anhydrous, trace metals basis 二溴化铅, 99.999%, 无水, 痕量分析	10031-22-8	<a href="#">927140</a>
Lead(II) chloride, 99.99%, anhydrous, trace metals basis 氯化铅(II), 99.99%, 无水, 痕量分析	7758-95-4	<a href="#">953759</a>
Lead(II) chloride, 99% 氯化铅(II), 99%	7758-95-4	<a href="#">908845</a>
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	<a href="#">937228</a>
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	<a href="#">961337</a>
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	<a href="#">2451950</a>
MAPbI <sub>3</sub> , 99%, for perovskite solar cell MAPbI <sub>3</sub> , 99%, 用于钙钛矿太阳能电池	/	<a href="#">9239501</a>
FAPbBr <sub>3</sub> , 99%, for perovskite solar cell FAPbBr <sub>3</sub> , 99%, 用于钙钛矿太阳能电池	/	<a href="#">9239504</a>
MAPbBr <sub>3</sub> , 99%, for perovskite solar cell MAPbBr <sub>3</sub> , 99%, 用于钙钛矿太阳能电池	/	<a href="#">9239502</a>
FAPbI <sub>3</sub> , 99%, for perovskite solar cell FAPbI <sub>3</sub> , 99%, 用于钙钛矿太阳能电池	/	<a href="#">9239503</a>

## ■ 铯盐

品名	CAS	货号
Cesium chloride, 99% 氯化铯, 99%	7647-17-8	<a href="#">281092</a>
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	<a href="#">988557</a>



# 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	<a href="#">926782</a>
Cesium iodide, 99.9%, trace metals basis 碘化铯, 99.9%, 微量金属基础	7789-17-5	<a href="#">977246</a>
Cesium iodide, 99.999%, trace metals basis 碘化铯, 99.999%, 微量金属基础	7789-17-5	<a href="#">978812</a>
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	<a href="#">960510</a>
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	<a href="#">911393</a>

## ■ 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	<a href="#">604754</a>
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	<a href="#">937239</a>
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	<a href="#">967129</a>

## ■ 铋盐

品名	CAS	货号
Bismuth(III) iodide, 98%, Anhydrous 碘化铋, 98%, 无水的	7787-64-6	<a href="#">164264</a>
Bismuth(III) iodide, 99.999%, trace metals basis 碘化铋, 99.999%, 微量金属基础	7787-64-6	<a href="#">993003</a>

## ■ 溶剂

高纯度, 高稳定性

包装丰富: 100ml, 500ml, 1L, 4L, 20L, 25L



品名	CAS	货号
Ethanol, 99.7% 乙醇, 99.7%	64-17-5	<a href="#">921327</a>



# 百灵威钙钛矿太阳能电池材料



Isopropanol, 99.7% 异丙醇, 99.7%	67-63-0	<a href="#"><u>928086</u></a>
Methanol, 99.5% 甲醇, 99.5%	67-56-1	<a href="#"><u>949300</u></a>
Ethyl lactate, 99% 乳酸乙酯, 99%	97-64-3	<a href="#"><u>349692</u></a>
1-Methyl-2-pyrrolidinone, 99% 1-甲基-2-吡咯烷酮, 99%	872-50-4	<a href="#"><u>974141</u></a>
Phosphoric acid, 85% solution in H <sub>2</sub> O, ACS reagent 磷酸, 85% 水溶液, ACS 级试剂	7664-38-2	<a href="#"><u>933962</u></a>

更多产品请点击查看

[原子层沉积 \(ALD\) 前体](#)

[百灵威纳米粒子](#)

[百灵威电子级溶剂](#)

详询百灵威客服 400-666-7788

