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Battery Research Reagents

Secondary batteries are rechargeable. There are small types of secondary batteries obtained from nickel-cadmium, nickel-hydrogen, and lithium ion sources. It is known that lead-acid batteries are relatively large. Secondary batteries are useful for automobiles, airplanes, agricultural equipment, electric vehicles, computers, mobile phones and so on. Among them, the lithium ion batteries are mainly used for various applications, and are manufactured by lithium cobalt oxide (anode), graphite (cathode), and a liquid electrolyte with organic components.¹⁾ The lithium ion batteries provide high voltage and energy density, because the lithium ion supplied from the lithium cobalt oxide is a carrier performing the charge/discharge of the battery. A memory effect hardly occurs. A package of the lithium ion batteries can be compact. Further development of a better secondary battery is also in progress towards a low-carbon society as well as energy security.

In order to improve security of the lithium ion batteries, it is expected to use an ionic liquid electrolyte,²⁾ phosphate-based organic solvent,³⁾ an organic and inorganic solid electrolyte, since an organic electrolyte solution is more or less flammable. An electrolyte solution requires a fluorine-containing flame retardant as an additive.⁴⁾ A selection of electrolyte is important for input-output characteristics, lifetime, security and voltage of a secondary battery. It is also expected that the electrolyte shows high lithium ion conductivity, both electrical and chemical stability, and a low environmental load.

A next generation secondary battery with high energy density must be developed well. Among them, we may expect practical use of a secondary battery based on a multivalent ion carrier that can transport multi-electrons. A magnesium-based secondary battery has a theoretically high energy density. Furthermore, it is expected that one can use abundant magnesium for the battery and it is secure to use.⁵⁾

Redox flow battery (RFB) is developed for application of scalable stationary batteries, and one can expect that they are promising energy storage system for a smart grid that balance power supply and demand. Organic RFB which is fabricated by organic-based redox active electrolytes, has received good attention as they are potentially much less expensive than their vanadium-based flow batteries.⁶⁻⁸⁾

References

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Battery Electrolytes

Lithium Electrolytes

L0204 25g 300g



Lithium Chloride
Anhydrous
CAS RN: 7447-41-8

L0210 25g 100g 500g



Lithium Bromide
CAS RN: 7550-35-8

L0133 25g



Lithium Tetrafluoroborate
CAS RN: 14283-07-9

L0146 25g 100g



Lithium Hexafluorophosphate
CAS RN: 21324-40-3

L0411 5g 25g



Lithium Hexafluoroantimonate
CAS RN: 18424-17-4

L0371 100g 500g



Lithium Sulfate
CAS RN: 10377-48-7

L0379 25g 100g 500g



Lithium Perchlorate
CAS RN: 7791-03-9

L0405 25g 500g



Lithium Metaphosphate
CAS RN: 13762-75-9

L0281 5g 25g



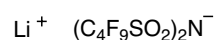
LiFSI
CAS RN: 171611-11-3

B2542 25g 250g



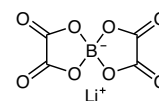
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CAS RN: 90076-65-6

L0307 1g 5g



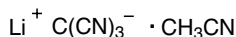
Lithium Bis(nonafluoro-
butanesulfonyl)imide
CAS RN: 119229-99-1

L0367 5g 25g



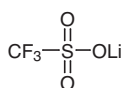
Lithium Bis(oxalate)borate
CAS RN: 244761-29-3

L0308 1g 5g



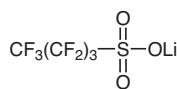
Lithium Tricyanomethanide -
Acetonitrile Complex

T1548 25g



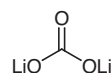
Lithium Triflate
CAS RN: 33454-82-9

N0710 25g



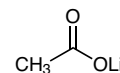
Lithium Perfluoro-
1-butanesulfonate
CAS RN: 131651-65-5

L0224 25g 500g



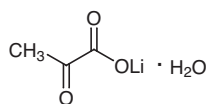
Lithium Carbonate
CAS RN: 554-13-2

L0191 25g 500g



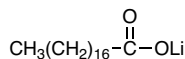
Lithium Acetate
CAS RN: 546-89-4

P0659 25g



Pyruvic Acid Lithium Salt
Monohydrate
CAS RN: 2922-61-4

S0237 25g 500g



Lithium Stearate
CAS RN: 4485-12-5

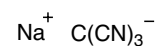
Sodium Electrolytes

O0494 25g 500g



Sodium Tetrafluoroborate
CAS RN: 13755-29-8

O0489 5g 25g



Sodium Tricyanomethanide
CAS RN: 36603-80-2

S0392 25g



Sodium Hexafluorophosphate
CAS RN: 21324-39-0

Potassium Electrolytes

P2565 25g 500g



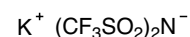
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P1023 25g 100g 500g



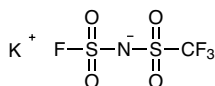
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CAS RN: 17084-13-8

B2543 5g 25g



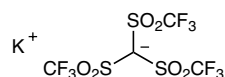
Potassium Triflimide
CAS RN: 90076-67-8

P2410 1g 5g



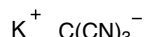
Potassium (Fluorosulfonyl)-
(trifluoromethanesulfonyl)-
imide
CAS RN: 860653-59-4

P2520 1g 5g



Potassium Tris(trifluoro-
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CAS RN: 114395-69-6

P2538 1g 5g



Potassium Tricyanomethanide
CAS RN: 34171-69-2

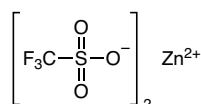
Zinc Electrolytes

Z0053 5g 25g



Zinc Chloride (High Purity &
Low water content)
CAS RN: 7646-85-7

Z0057 5g 25g



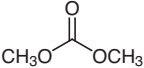
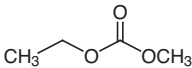
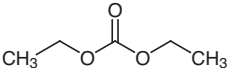
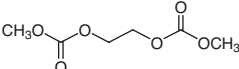
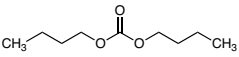
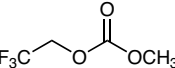
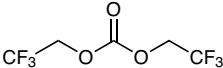
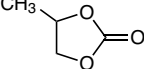
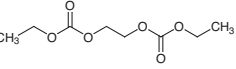
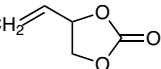
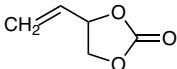
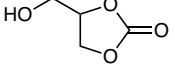
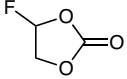
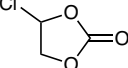
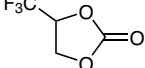
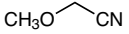
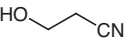
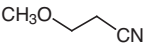
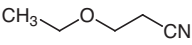
Zinc(II) Triflate
CAS RN: 54010-75-2

Electrode Materials

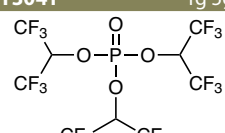
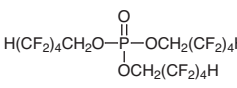
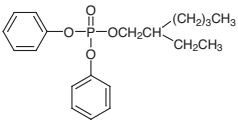
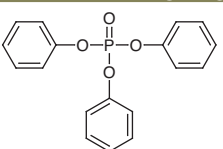
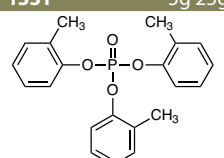
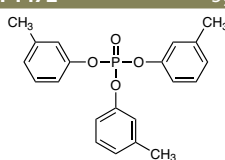
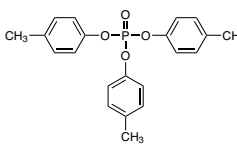
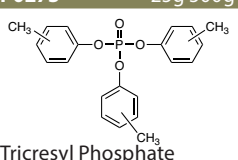
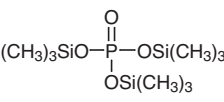
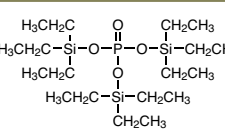
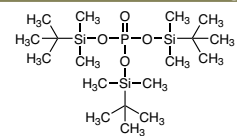
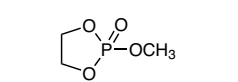
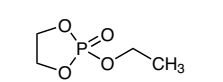
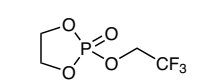
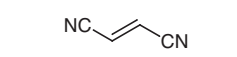
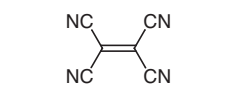
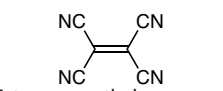
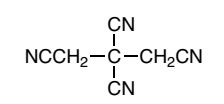
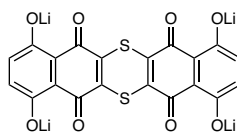
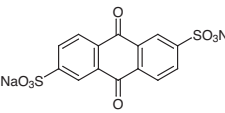
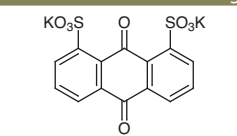
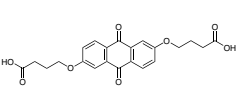
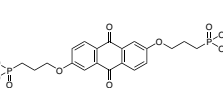
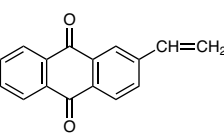
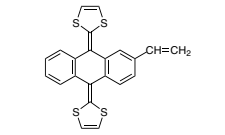
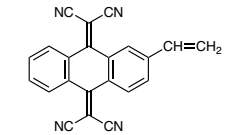
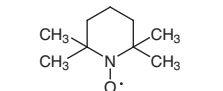
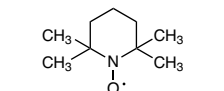
Electrode Materials	L0394 25g	L0384 25g 100g	L0390 5g 25g
	LiNiO_2 Lithium Nickel Oxide CAS RN: 12031-65-1	LiCoO_2 Lithium Cobalt(III) Oxide CAS RN: 12190-79-3	LiMnPO_4 Lithium Manganese(II) Phosphate CAS RN: 13826-59-0
	L0380 25g 100g	L0386 25g 100g	L0402 5g 25g
	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ Lithium Titanate (Spinel) CAS RN: 12031-95-7	LiFePO_4 Lithium Iron(II) Phosphate CAS RN: 15365-14-7	LiNiPO_4 Lithium Nickel(II) Phosphate CAS RN: 13977-83-8
	L0396 25g 100g	L0397 25g 100g	L0407 5g 25g
$\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ NMC811 CAS RN: 179802-95-0	$\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ NMC622 CAS RN: 193215-05-3	$\text{LiNi}_{0.4}\text{Mn}_{0.4}\text{Co}_{0.2}\text{O}_2$ NMC-442 CAS RN: 193215-96-2	LiCoPO_4 Lithium Cobalt(II) Phosphate CAS RN: 13824-63-0
			L0398 25g 100g
			$\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ NMC532 CAS RN: 193215-53-1
			L0392 25g 100g
			$\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ NCA CAS RN: 193214-24-3

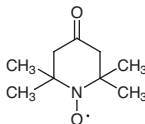
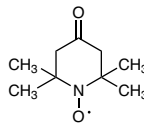
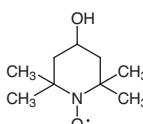
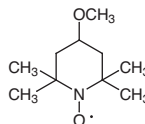
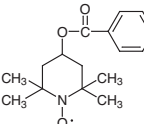
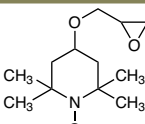
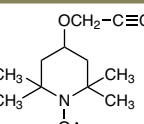
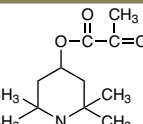
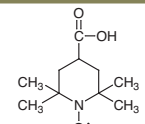
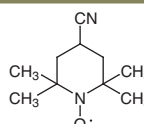
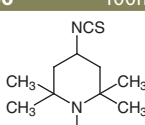
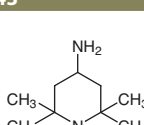
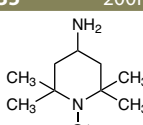
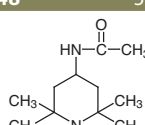
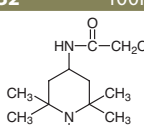
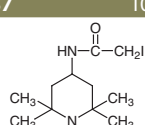
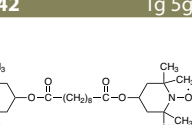
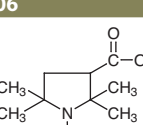
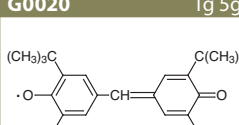
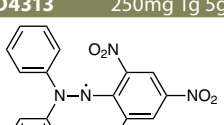
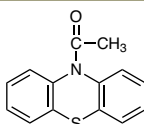
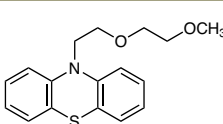
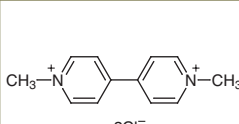
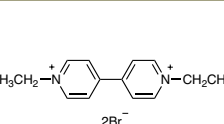
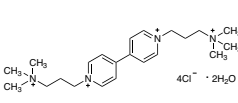
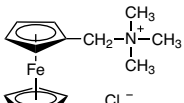
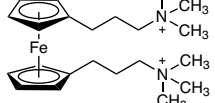
Organic Solvents

Carbonate Esters

Organic Solvents	Carbonate Esters	C0053 25mL 100mL 500mL	C1342 10mL 25mL
		 Dimethyl Carbonate CAS RN: 616-38-6	 Ethyl Methyl Carbonate CAS RN: 623-53-0
		C0041 25g 500g	D2455 5g 25g
		 Diethyl Carbonate CAS RN: 105-58-8	 Dimethyl 2,5-Dioxahexanedioate CAS RN: 88754-66-9
		C0040 5g 25g	V0114 25g 100g
 Dibutyl Carbonate CAS RN: 542-52-9	 Methyl 2,2,2-Trifluoroethyl Carbonate CAS RN: 156783-95-8	 Bis(2,2,2-trifluoroethyl) Carbonate CAS RN: 1513-87-7	 Vinylene Carbonate (stabilized with BHT) CAS RN: 872-36-6
D2456 25g	E0076 25g 500g	P0525 25g 500g	 Propylene Carbonate CAS RN: 108-32-7
 Diethyl 2,5-Dioxahexanedioate CAS RN: 35466-87-6	 Ethylene Carbonate CAS RN: 96-49-1	 4-(Trifluoromethyl)-1,3-dioxolan-2-one CAS RN: 167951-80-6	 Vinyl ethylene Carbonate CAS RN: 4427-96-7
G0279 25g	F0731 5g 25g	C1858 5g 25g	T3985 1g 5g
 Glycerol 1,2-Carbonate CAS RN: 931-40-8	 Fluoroethylene Carbonate CAS RN: 114435-02-8	 Chloroethylene Carbonate CAS RN: 3967-54-2	 4-(Trifluoromethyl)-1,3-dioxolan-2-one CAS RN: 167951-80-6
Nitriles	M0103 5mL 25mL	C0450 25mL 100mL 500mL	M0653 25mL 500mL
	 Methoxyacetonitrile CAS RN: 1738-36-9	 Ethylene Cyanohydrin CAS RN: 109-78-4	 3-Methoxypropionitrile CAS RN: 110-67-8
			E0299 25mL 500mL
			 3-Ethoxypropionitrile CAS RN: 2141-62-0

E0108 25g 100g 1,2-Bis(2-cyanoethoxy)-ethane CAS RN: 3386-87-6		B0522 25mL 100mL 500mL Trimethyl Borate CAS RN: 121-43-7	B2094 5g 25g Trihexyl Borate CAS RN: 5337-36-0	T3010 1g Tris(2,2,2-trifluoroethyl) Borate CAS RN: 659-18-7
T1581 25g 100g 2,4,6-Trimethoxyboroxin CAS RN: 102-24-9		M1239 5g 25g 500g Dimethyl Sulfone CAS RN: 67-71-0	I0484 5g 25g Isopropyl Methyl Sulfone CAS RN: 4853-74-1	D1171 25g Dipropyl Sulfone CAS RN: 598-03-8
D0264 25g 500g Dimethyl Sulfite CAS RN: 616-42-2	T0115 5g 25g 500g Sulfolane CAS RN: 126-33-0	M0436 25g 250g 3-Methylsulfolane CAS RN: 872-93-5	P0324 25g 100g 500g 1,3-Propanesultone CAS RN: 1120-71-4	B0136 25g 250g 1,4-Butanesultone CAS RN: 1633-83-6
D2977 5g 25g Ethylene Sulfite CAS RN: 3741-38-6	M2471 5g 25g 1,2-Propylene Sulfite (mixture of isomers) CAS RN: 1469-73-4	D2830 5g 25g Ethylene Sulfate CAS RN: 1072-53-3	D6135 1g 5g 25g 1,1,1-Trifluoro-N,N-dimethylmethanesulfonamide CAS RN: 28048-17-1	
Battery Additives		Phosphazenes		C0584 25g 250g Phosphonitric Chloride Trimer CAS RN: 940-71-6
H1429 5g 25g Hexafluoro-cyclotriphosphazene CAS RN: 15599-91-4	P2286 1g 5g Pentafluoro(phenoxy)-cyclotriphosphazene CAS RN: 33027-68-8	H1356 5g 25g Hexaphenyoxy-cyclotriphosphazene CAS RN: 1184-10-7	Phosphate Esters	
P0270 25g 500g Triethyl Phosphate CAS RN: 78-40-0	P0266 25g 500g Tributyl Phosphate CAS RN: 126-73-8	P0265 5mL 25mL Triamyl Phosphate CAS RN: 2528-38-3	P1022 25mL 500mL Trioctyl Phosphate CAS RN: 78-42-2	T3987 5g 25g Tripropargyl Phosphate CAS RN: 1779-34-6
P0264 25mL 100mL Triallyl Phosphate CAS RN: 1623-19-4	P0683 25g 500g Tris(2-butoxyethyl) Phosphate CAS RN: 78-51-3	T3447 25g 100g Tris(2-chloroethyl) Phosphate CAS RN: 115-96-8	P0269 25g 500g Tris(1,3-dichloro-2-propyl) Phosphate CAS RN: 13674-87-8	T3203 5g 25g Tris(2,2,2-trifluoroethyl) Phosphate CAS RN: 358-63-4

T3041 1g 5g  Tris(1,1,1,3,3,3-hexafluoro-2-propyl) Phosphate CAS RN: 66489-68-7	P1134 10g  Tris(1H,1H,5H-octafluoropentyl) Phosphate CAS RN: 355-86-2	P1021 25g 500g  Octyl Diphenyl Phosphate CAS RN: 1241-94-7	P0272 25g 500g  Triphenyl Phosphate CAS RN: 115-86-6	P1331 5g 25g  Tri-o-cresyl Phosphate CAS RN: 78-30-8
P1472 5g  Tri-m-cresyl Phosphate CAS RN: 563-04-2	T2209 5g 25g  Tri-p-cresyl Phosphate CAS RN: 78-32-0	P0273 25g 500g  Tricresyl Phosphate (mixture of isomers) CAS RN: 1330-78-5	P0259 25mL 500mL  Cresyl Diphenyl Phosphate (mixture of analogue) CAS RN: 26444-49-5	P1248 5g 25g  Tris(trimethylsilyl) Phosphate CAS RN: 10497-05-9
T4111 5g  Tris(triethylsilyl) Phosphate CAS RN: 123237-62-7	T4119 5g  Tris(tert-butyl dimethylsilyl) Phosphate CAS RN: 85197-28-0	M3604 1g 5g  Methyl Ethylene Phosphate CAS RN: 2196-04-5	E1458 1g 5g  Ethyl Ethylene Phosphate CAS RN: 823-31-4	E1456 1g 5g  TFEP CAS RN: 67605-68-9
Nitriles	F0072 5g 25g  Fumaronitrile CAS RN: 764-42-1	T0077 5g 25g  Tetracyanoethylene CAS RN: 670-54-2	T3264 1g 5g  Tetracyanoethylene (purified by sublimation) CAS RN: 670-54-2	P1751 1g 5g  1,2,2,3-Tetracyanopropane CAS RN: 1274904-48-1
Battery Cathode Active Materials	D5947 100mg 500mg  DNP-Li CAS RN: 1882849-59-3			
Organic Redox Flow Battery Materials		Quinones and Analogues		
A0308 5g 25g  Disodium Anthraquinone-2,6-disulfonate CAS RN: 853-68-9	A0505 25g  Dipotassium Anthraquinone-1,8-disulfonate CAS RN: 14938-42-2	D5764 5g  2,6-DBEAQ CAS RN: 2370885-20-2	D5765 5g  2,6-DPPEAQ CAS RN: 2370885-23-5	V0139 1g 5g  2-Vinylanthraquinone CAS RN: 13388-33-5
V0136 100mg 500mg  9,10-Bis(1,3-dithiol-2-ylidene)-2-vinylanthracene CAS RN: 736998-56-4	V0137 1g 5g  9,10-Bis(dicyanomethylene)-2-vinylanthracene CAS RN: 1612793-07-3	Organic Radicals		
		T1560 5g 25g  TEMPO Free Radical CAS RN: 2564-83-2	T3751 1g 5g  TEMPO Free Radical (purified by sublimation) CAS RN: 2564-83-2	

O0266 5g 25g  4-Oxo-TEMPO Free Radical CAS RN: 2896-70-0	O0521 1g  4-Oxo-TEMPO Free Radical (purified by sublimation) CAS RN: 2896-70-0	H0865 5g 25g  TEMPOL Free Radical CAS RN: 2226-96-2	M1197 1g 5g  4-Methoxy-TEMPO Free Radical CAS RN: 95407-69-5	H0878 1g 5g  4-Hydroxy-TEMPO Benzoate Free Radical CAS RN: 3225-26-1
G0555 1g 5g  4-Glycidyloxy-TEMPO Free Radical CAS RN: 122413-85-8	T3169 1g 5g  4-(2-Propynyloxy)-TEMPO Free Radical CAS RN: 147045-24-7	M1531 1g 5g  TEMPO Methacrylate CAS RN: 15051-46-4	C1428 100mg 1g  4-Carboxy-TEMPO Free Radical CAS RN: 37149-18-1	C1782 1g  4-Cyano-TEMPO Free Radical CAS RN: 38078-71-6
I0486 100mg 1g  4-Isothiocyanato-TEMPO Free Radical CAS RN: 36410-81-8	A1343 1g 5g  4-Amino-TEMPO Free Radical CAS RN: 14691-88-4	A3235 200mg 1g  4-Amino-TEMPO Free Radical (purified by sublimation) CAS RN: 14691-88-4	A1348 5g 25g  4-Acetamido-TEMPO Free Radical CAS RN: 14691-89-5	C1432 100mg 1g  4-(2-Chloroacetamido)-TEMPO Free Radical CAS RN: 36775-23-2
I0487 100mg  4-(2-Iodoacetamido)-TEMPO Free Radical CAS RN: 25713-24-0	B5642 1g 5g  Bis(2,2,6,6-tetramethyl-4-piperidyl-1-oxyl) Sebacate CAS RN: 2516-92-9	C1406 1g  3-Carboxy-PROXYL Free Radical CAS RN: 2154-68-9	G0020 1g 5g  Galvinoxyl Free Radical CAS RN: 2370-18-5	D4313 250mg 1g 5g  DPPH Free Radical CAS RN: 1898-66-4
Other Organic Active Materials	A3154 1g 5g  10-Acetylphenothiazine CAS RN: 1628-29-1	M3068 10g  MEEPT CAS RN: 2098786-35-5	D3685 1g 5g  Methyl Viologen CAS RN: 1910-42-5	E1430 1g 5g  Ethylviologen Dibromide CAS RN: 53721-12-3
B5659 5g  BTMAP-Vj Dihydrate CAS RN: 108228-37-1	F1231 1g 5g  FcNCl CAS RN: 83617-79-2	B5660 5g  BTMAP-Fc CAS RN: 2093414-16-3		

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