



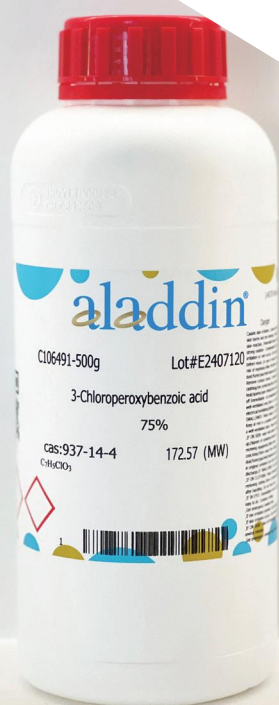
Oxidation Reagents

INTRODUCTION

Oxidation reaction, as one of the cornerstones of organic chemistry, its core lies in promoting the release of electrons from target substances, thereby triggering profound changes in chemical properties. This process is particularly evident in the conversion pathway of alcohol compounds into corresponding aldehydes, ketones, and even carboxylic acids. For a long time, heavy metal compounds such as chromium (VI) oxide and potassium permanganate have been widely studied and utilized due to their excellent performance in the field of oxidation. Based on the pioneering work of fine regulation of oxidation ability, chromium (VI) oxide has become an indispensable oxidation tool, and further evolved into efficient variants such as PCC (pyridinium chlorochromate) and PDC (pyridinium dichlorochromium), which are widely used in multiple chemical fields.

At the same time, in order to avoid potential environmental and health risks caused by heavy metals, scientists have successfully developed oxidation systems free of heavy metals, such as Dess Martin oxidant, Mukaiyama oxidant, and ammonium hydroxide. These green oxidants provide a more environmentally friendly option for organic synthesis.

It is worth mentioning that in order to meet the diverse needs of the scientific research and industry for oxidants, Aladdin Scientific can provide over a hundred choices of oxidants, covering a comprehensive product line from classic to modern, from high efficiency to environmental protection, helping your scientific research and production path to be smoother.



Metal Oxidants

Cat. NO	Product Name	CAS	Specification	Package
B152925	Benzeneseleninic Acid	6996-92-5	>97.0%(HPLC)(T)	1g/5g
C352387	Chloronitrosyl[N,N' -bis(3,5-di-tert-butylsalicylidene)-1,1,2,2-tetramethylethylenediaminato] ruthenium(IV)	386761-71-3	85%	10mg/100mg
L106810	Lead(IV) acetate	546-67-8	reagent grade, Contains 4-10% Glacial Acetic acid	25g/100g/500g
P432815	Phosphomolybdic acid hydrate	51429-74-4	≥ 99.99% trace metals basis	5g/10g/50g
P106557	Pyridinium chlorochromate	26299-14-9	98%	5g/25g/100g/500g/2.5kg
P122663	Pyridinium Dichromate	20039-37-6	98%	25g/100g/500g/2.5kg
P124192	Pyridinium fluorochromate	83042-08-4	98%	5g/25g/50g/100g
Q160825	Quinolinium Dichromate	56549-24-7	>97.0%(T)	1g/10g/50g
S161217	Silver(II) Pyridine-2-carboxylate	14783-00-7	>97.0%(T)	200mg/1g/5g
T161966	Tetrabutylammonium Perrhenate	16385-59-4	98%	200mg/1g/5g
T118500	Tetrapropylammonium perruthenate	114615-82-6	97%	100mg/250mg/1g/5g/10g/25g
C154059	2-Chloro-1-methylpyridinium Iodide	14338-32-0	>98.0%(T)	5g/10g/25g/100g/500g

Perchlorates

Cat. NO	Product Name	CAS	Specification	Package
D404645	9-(2,6-Dimethylphenyl)-10-methylacridinium Perchlorate	1276539-32-2	95%	100mg/250mg/1g
M157877	9-Mesityl-10-methylacridinium Perchlorate	674783-97-2	>98.0%(HPLC)	250mg/1g/5g
M157879	9-Mesityl-2,7,10-trimethylacridinium Perchlorate	1216909-33-9	95%	50mg/250mg/1g
M157876	10-Methyl-9-phenylacridinium Perchlorate	36519-61-6	>98.0%(HPLC)(N)	250mg/1g/5g
T109600	Tetrabutylammonium perchlorate	1923-70-2	electrochemical grade	10g/50g
T162432	Tetraethylammonium Perchlorate	2567-83-1	>98.0%(T)	5g

Hypervalent Iodine Compounds

Cat. NO	Product Name	CAS	Specification	Package
A151489	1-Acetoxy-5-bromo-1,2-benziodoxol-3(1H)-one	1580548-81-7	97%	250mg/1g/5g
B152278	[Bis(trifluoroacetoxy)iodo] pentafluorobenzene	14353-88-9	97%	200mg/250mg/1g/5g/25g
D110230	Dess-Martin Periodinane	87413-09-0	96%	1g/5g/25g/100g/250g/500g

Hypervalent Iodine Compounds

Cat. NO	Product Name	CAS	Specification	Package
D106797	(Diacetoxyiodo)benzene	3240-34-4	98%	5g/10g/25g/100g/500g/2.5kg
I157625	Iodomesitylene Diacetate	33035-41-5	97%	250mg/1g/5g/25g
I157626	Iodosobenzene	536-80-1	>95.0%(T)	1g/5g/25g/100g
I157627	2-Iodosobenzoic Acid	304-91-6	>98.0%(T)	1g/5g/10g/25g
I419604	2-Iodoxybenzoic acid	61717-82-6	98% (sum of isomers)	1g/5g/25g/100g/500g
H102430	[Hydroxy(tosyloxy)iodo]benzene	27126-76-7	97%	5g/10g/25g/100g/500g
P339217	Poly[4-(diacetoxyiodo)styrene]	36290-94-5	-	1g/5g

N-Oxides

Cat. NO	Product Name	CAS	Specification	Package
D138576	2,6-Dichloropyridine N-oxide	2587-00-0	>98.0%(GC)	1g/5g/25g
D154140	4-(Dimethylamino)pyridine N-Oxide Hydrate	1005-31-8	98%	1g/5g
L123095	2,6-Lutidine N-Oxide	1073-23-0	98%	5g/25g/100g
M433594	4-Methylmorpholine N-oxide	7529-22-8	97%	5g/25g/100g/500g
P119965	Pyridine N-oxide	694-59-7	95%	5g/25g/100g/500g
T162064	Trimethylamine N-Oxide Anhydrous	1184-78-7	>95.0%(T)	250mg/1g/5g/25g

TEMPOs

Cat. NO	Product Name	CAS	Specification	Package
A151393	4-Acetamido-2,2,6,6-tetramethylpiperidine 1-Oxyl Free Radical	14691-89-5	>98.0%(GC)	1g/5g/25g/100g
H157124	4-Hydroxy-2,2,6,6-tetramethylpiperidine 1-Oxyl Benzoate Free Radical [Catalyst for Oxidation]	3225-26-1	>97.0%(GC)	200mg/250mg/1g/5g/25g
M158551	4-Methoxy-2,2,6,6-tetramethylpiperidine 1-Oxyl Free Radical [Catalyst for Oxidation]	95407-69-5	>98.0%(GC)	250mg/1g/5g
T106827	TEMPO	2564-83-2	98%	1g/5g/10g/25g/100g/500g/2.5kg

Organic Bismuth Compounds

Cat. NO	Product Name	CAS	Specification	Package
T162395	Triphenylbismuth Dichloride	594-30-9	98%	250mg/1g/5g

Organic Bismuth Compounds

Cat. NO	Product Name	CAS	Specification	Package
T162394	Tris(4-trifluoromethylphenyl)bismuth Dichloride	121882-75-5	>98.0%(T)	250mg/1g
T162399	Tri-o-tolylbismuth Dichloride	6729-60-8	>97.0%(T)	200mg/1g/5g

Others

Cat. NO	Product Name	CAS	Specification	Package
A151144	4-Acetamido-2,2,6,6-tetramethyl-1-oxopiperidinium Tetrafluoroborate	219543-09-6	>95.0%(T)	1g/5g
A105053	Ammonium ceric nitrate	16774-21-3	≥ 99.99% metals basis	10g/50g/250g
T106848	Bromanil	488-48-2	98%	1g/5g/25g/100g
B105057	N-Bromosuccinimide	128-08-5	AR,99.00%	1g/5g/10g/25g/100g/500g/2.5kg
N159338	N-tert-Butylbenzenesulfenamide	19117-31-8	>96.0%(GC)	200mg/1g/5g/25g
C120985	(2R,8aS)-(+)-(Camphorylsulfonyl) oxaziridine	104322-63-6	98%	1g/5g/25g/100g
C120990	(2S,8aR)-(-)-(Camphorylsulfonyl) oxaziridine	104372-31-8	98%	1g/5g/10g/25g/100g
C104061	Chloramine T trihydrate	7080-50-4	AR,>98.0%(T)	100g/250g/1kg/2.5kg/6×1kg
T105286	Tetrachloro-1,4-benzoquinone	118-75-2	analytical standard	250mg/1g/5g/25g/100g
T132896	Tetrachloro-o-benzoquinone	2435-53-2	≥ 95.0%(HPLC)	1g/5g/25g
D154267	Dichloramine T	473-34-7	>96.0%(T)	5g/25g/100g/500g
H157075	2-Hydroxy-2-azaadamantane	1155843-79-0	>98.0%(GC)(T)	200mg/1g/5g
I107018	N-Iodosuccinimide	516-12-1	97%	5g/10g/25g/100g/500g
M158352	1-Methyl-3-[6-(methylthio)hexyl]imidazolium p-Toluenesulfonate	1352947-63-7	>95.0%(HPLC)(N)	250mg/1g/5g
S106808	Sulfur trioxide pyridine complex	26412-87-3	97%	25g/50g/100g/500g/2.5kg
T118500	Tetrapropylammonium perruthenate	114615-82-6	97%	100mg/250mg/1g/5g/10g/25g



Many oxidants are highly likely to ignite or even explode when mixed with flammable substances or subjected to adverse conditions such as high temperature, impact, friction, etc. Therefore, **in the process of operating and disposing of these chemical reagents, it is necessary to take sufficient safety precautions**, including but not limited to using safety shields, wearing professional protective equipment, and always maintaining a high level of vigilance and caution to ensure personnel safety and environmental stability.

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