aladdin® Bases

Precision regulation in biochemical experiments

Introduction

Bases are important chemicals, of which can be categorized into two main groups: **organic and inorganic bases**, which have some commonalities and differences in structure and application.

Organic bases usually refer to basic organic compounds that are acceptors of protons and will most often contain nitrogen atoms. Depending on their structure and properties, organic bases can be divided into various types, such as amines, pyridines, quinolines, etc. Amine organic bases are the most common class, including primary, secondary and tertiary amines, which are widely used in organic synthesis as nucleophilic reagents, catalysts and basic reagents. Pyridine and quinoline organic bases are commonly used in the preparation of compounds such as drugs, dyes and pesticides. Organic bases play an important role in the fields of medicinal chemistry, pesticide chemistry, dye industry and polymer chemistry.

Inorganic bases, on the other hand, are basic compounds that do not contain carbon and are mainly composed of metal cations and hydroxide ions. Common inorganic bases include sodium hydroxide, potassium hydroxide, and calcium hydroxide. These inorganic bases have a wide range of applications in industrial production, for example, they are used in the manufacture of soap, glass, paper, and so on. In addition, inorganic bases are commonly used in industrial processes such as wastewater treatment, metal surface cleaning and degreasing. In the laboratory, inorganic bases are also commonly used to adjust the pH of solutions, perform acid-base neutralization reactions, and as catalysts.

Overall, organic and inorganic bases each play an important role in chemistry and industry. Organic bases are mainly used in organic synthesis, drug manufacturing and fine chemicals, while inorganic bases are more often used in basic chemical processes in industrial production. These basic compounds have not only made important contributions to the development and progress of human society, but will continue to play an important role in future scientific research and industrial applications.

Organic Base

Item No.	Product Name	CAS	Specification/Purity	Package
N466053	n-Butyl-sec-butylmagnesium solution	39881-32-8	0.7 M in hexane	100mL/800mL
P140681	Potassium tert-pentoxide	41233-93-6	1.0 M in cyclohexane	25mL/100mL/500mL
T102829	Tetrapropylammonium hydroxide solution	4499-86-9	1.0 M in H2O (cosolvent: ~10% methanol)	5g/25g/100g/500g
P140741	Potassium tert-butoxide solution	865-47-4	1.0 M in THF	100mL/500mL
B107834	tert-Butylmagnesium Chloride	677-22-5	1.0 M in THF	100mL/500mL/1L
S106744	Sodium bis(trimethylsilyl)amide	1070-89-9	1.0 M in THF (~21%)	100mL/500mL/800mL/1L
P109542	Potassium bis(trimethylsilyl) amide	40949-94-8	1.0 M in THF (~22%)	100mL/500mL/1L
L106746	Lithium bis(trimethylsilyl)amide	4039-32-1	1.0 M in toluene	100mL/500mL
E110157	Ethyllithium solution	811-49-4	1.6 M in diethyl ether	100mL/500mL
I114513	Isobutyllithium solution	920-36-5	1.6 M in n-hexane	100mL/500mL
T433023	tert-Butyllithium solution	594-19-4	1.7 M in pentane	25mL/4×25mL/100mL/500mL
H121181	Hexylmagnesium Bromide	3761-92-0	2.0 M in diethyl ether	100mL/500mL
L109346	Lithium diisopropylamide solution	4111-54-0	2.0 M in heptane/THF/ ethylbenzene	100mL/500mL/800mL
H121187	Hexylmagnesium chloride	44767-62-6	2.0 M in THF	100mL/500mL/800mL
P110287	Propylmagnesium chloride solution	2234-82-4	2.0 M in THF	100mL/500mL
D141100	Dimethylamine	124-40-3	2.0 M in THF	100mL/500mL/1L
I137886	Isobutylmagnesium chloride solution	5674-02-2	2.0 M in THF	100mL/500mL/1L
B110312	sec-Butylmagnesium chloride solution	15366-08-2	2.0 M in THF	100mL/500mL
N431407	n-Butyllithium solution	109-72-8	2.0 M in cyclohexane	25mL/4×25mL/100mL/800mL
D431651	Dimethylamine	124-40-3	2.0 M in methanol	4×25mL/100mL/500mL
H407498	Hexyllithium	21369-64-2	2.2 M in hexane	100mL/500mL
S140673	Sodium tert-pentoxide	14593-46-5	2.5 M (30 wt%) in THF	100mL/500mL/1L
B107553	n-Butyllithium solution	109-72-8	2.7 M in hexane (25% solution)	100mL/500mL
M140783	Methylmagnesium Iodide	917-64-6	3.0 M in diethyl ether	100mL/500mL
M433582	Methylmagnesium bromide solution	75-16-1	3.0 M in diethyl ether	50mL/100mL
H303830	Hexadecyltrimethylammonium hydroxide solution	505-86-2	10 wt. % in H2O	25mL/100mL/500mL
T336968	Triethylmethylammonium hydroxide solution	109334-81-8	20 wt. % in H2O	10mL/50mL/250mL
D140684	Diethyldimethylammonium hydroxide solution	95500-19-9	20 wt. % in H2O	10mL/50mL/100mL/250mL/1L/5L
T434180	Tetraethylammonium hydroxide solution	77-98-5	35 wt. % in H2O	100mL/500mL/2.5L
M102702	Methylamine solution	74-89-5	40 wt. % in H2O	100mL/500mL/5L/10L/25L /12×500mL

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Item No.	Product Name	CAS	Specification/Purity	Package
T121851	Tetrabutylphosphonium hydroxide solution	14518-69-5	40 wt. % in H2O	5mL/25mL/50mL
C166651	Choline hydroxide solution	123-41-1	44 wt. % in H2O	25g/25mL/100g/100mL/500g /500mL/2.5L/10L/20L
T432295	Tetrabutylammonium hydroxide solution	2052-49-5	54.0-56.0% in H2O	100mL/500mL
E105062	Ethylamine	75-04-7	68.0-72.0% in H2O	500mL/2.5L/10L/12×500mL
L300534	Lithium trimethylsilanolate	2004-14-0	95%	1g/5g/10g
S104118	Sodium ethylate	141-52-6	96%	100g/250g/500g/2.5kg/20kg
L469148	Lithium 2,2,6,6-tetramethylpiperidide	38227-87-1	97%	1g/5g/10g/25g
P121066	4-Piperidinopyridine	2767-90-0	97%	1g/5g/25g
P353517	Phosphazene base P1-t-Bu	81675-81-2	97%	1mL/5mL
L432696	Lithium bis(trimethylsilyl)amide	4039-32-1	97%	10g/50g/250g
I303814	Imino-tris(dimethylamino) phosphorane	49778-01-0	97%	250mg
P167679	Phosphazene base P1-t-Bu-tris(tetramethylene)	161118-67-8	97.0% (NT)	1mL/5mL/25mL
L107390	Lithium methoxide	865-34-9	98%	25g/100g/250g/500g
S109392	Sodium tert-butoxide	865-48-5	98%	25g/100g/500g/2.5kg
S299063	Sodium tert-pentoxide	14593-46-5	98%	25g/100g/500g
D418600	Dehydrocorydalin	30045-16-0	98%	1mg/5mg/25mg
I165554	N,N-Diisopropylmethylamine	10342-97-9	98.0% (GC)	1mL/5mL
L118703	Lithium tert-butoxide	1907-33-1	99.9% metals basis	5g/25g/100g/250g/500g
M336652	Magnesium bis(hexamethyldisilazide)	857367-60-3	⩾ 96%	1g/5g/25g
P305082	Phosphazene base P	161118-69-0	⩾ 97.0%	1mL
B334164	BEMP	98015-45-3	⩾ 98%	1mL/5mL/25mL
S161137	Succinylcholine Chloride Dihydrate	6101-15-1	>98.0% (T)	1g/5g/25g
S431653	Sodium methoxide solution	124-41-4	ACS reagent, 0.5 M CH3ONa in methanol (0.5 N)	100mL/250mL
D110470	Diethylamine	109-89-7	ACS, >99.0%	500mL/2.5L/12×500mL
S116316	Sodium acetate anhydrous	127-09-3	AR	500g/2.5kg/12×500g/20×500g
D110466	Diethylamine	109-89-7	AR, >99.0% (GC)	100mL/500mL/2.5L/10L/20L/12×500mL
T100883	Tetramethylammonium hydroxide solution	75-59-2	AR, 25% in ethanol	25mL/100mL/500mL/1L/5L
T102754	Tetraethylammonium hydroxide	77-98-5	AR, 25% in water	50mL/100mL/250mL/500mL /1L/5L
M102684	Methylamine	74-89-5	AR, 30-33 wt. % in ethanol	500mL/10L/25L/12×500mL
D355485	4-(Dimethylamino)pyridine, polymer-bound	82942-26-5	extent of labeling: ~3.0 mmol/g "DMAP" loading, matrix crosslinked with 2% DVB	1g/5g

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Inorganic Base

Item No.	Product Name	CAS	Specification/Purity	Package
M299294	Magnesium hydroxide	1309-42-8	95%	500g/1kg/2.5kg/5kg
S434057	Sodium amide	7782-92-5	98%	50g/250g/1kg
B192147	Barium hydroxide monohydrate	22326-55-2	98%	25g/100g/500g/2.5kg
L106770	Lithium hydroxide，anhydrous	1310-65-2	98%	25g/100g/500g/2.5kg
B639854	Barium hydroxide monohydrate	22326-55-2	99.9% metals basis	500g/2.5kg
A639162	Ammonia solution 25%	1336-21-6	⩾ 25% in H2O	500mL/2.5L/12×500mL/10L
S111507	Sodium hydroxide	1310-73-2	⩾ 98%, pellets (anhydrous)	500g/2.5kg/12×500g
A140739	Ammonia solution	7664-41-7	0.4 M in 1,4-dioxane	100mL/500mL/1L
A433783	Ammonia solution	7664-41-7	0.4 M in THF	100mL/500mL
A140745	Ammonia solution	7664-41-7	2.0 M in ethanol	100mL/500mL
A140749	Ammonia solution	7664-41-7	2.0 M in isopropanol	100mL/500mL
S431781	Sodium hydroxide solution	1310-73-2	50% in H2O	25mL/100mL/500mL/1L/4L/18L/650lbs
S431779	Sodium hydroxide solution	1310-73-2	1.0 N, BioReagent, suitable for cell culture	100mL
S110860	Sodium hydride	7646-69-7	60% dispersion in mineral oil	100g/250g/1kg/5kg
A431915	Ammonium hydroxide solution	1336-21-6	28%-30% NH3 in H2O, ⩾ 99.99% trace metals basis	5mL/100mL/1L
C101989	Calcium hydroxide	1305-62-0	ACS, ⩾ 95.0%	100g/500g/2.5kg
B116439	Barium hydroxide octahydrate	12230-71-6	ACS, 98%	500g
S111509	Sodium hydroxide	1310-73-2	ACS, K ⩽ 0.02%, ⩾ 98.0% (T), pellets	500g/5kg
S128514	Sodium hydroxide Analytical Titrant	1310-73-2	Analytical Volumetric Solution, 5.0M	1L
A112077	Ammonia solution	1336-21-6	AR, 25-28%	500mL/5L/12×500mL/4×5L
P112284	Potassium hydroxide	1310-58-3	AR, 85%	500g/5kg/12×500g/20×500g
S111518	Sodium hydroxide	1310-73-2	AR, 96%, granules	500g/2.5kg/12×500g/20×500g
S111502	Sodium hydroxide	1310-73-2	Ph. Eur., BP, NF, E524, 98-100.5%, pellets	500g/5kg/12×500g
S117540	Sodium hydroxide solution	1310-73-2	volumetric, 0.10mol/L in water	90mL
P112281	Potassium hydroxide	1310-58-3	semiconductor grade, 99.99% metals basis (Purity excludes sodium content.)	25g/100g/500g/2.5kg/12×500g
P431768	Potassium hydroxide	1310-58-3	pellets basic-grade reagents, for preparation	500g/1kg/5kg
S431787	Sodium hydroxide	1310-73-2	pellets basic-grade reagents, for preparation	1kg/5kg
S431793	Sodium hydroxide	1310-73-2	anhydrous, reagent grade, ⩾ 98 Corrosive substance %, pellets	500g/1kg

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Aladdin Scientific Corporation

Official website: www.aladdinsci.com
Phone: +1 (833) 552-7181
Email for purchasing: sales@aladdinsci.com
Email for customer service: custserv@aladdinsci.com
Email for technical support: support@aladdinsci.com
Submit a ticket: https://www.aladdinsci.com/customersupport
Address: 14078 Meridian Parkway, Riverside, CA. 92518 USA