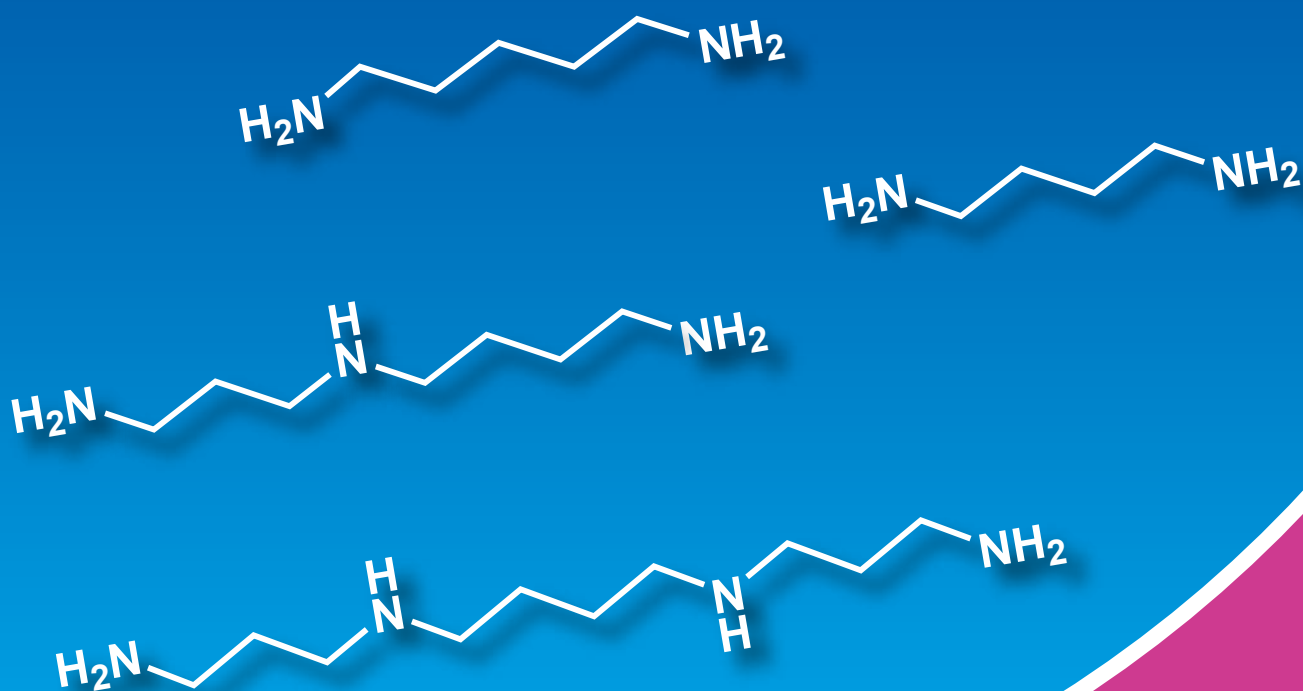


Polyamines



Polyamines

Reagents for Polyamine Synthesis

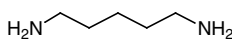
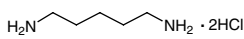
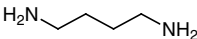
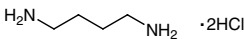
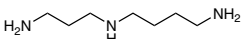
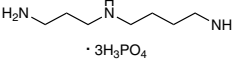
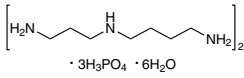
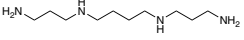
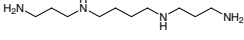
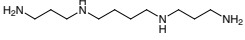
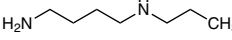
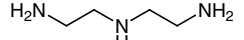
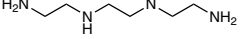
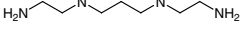
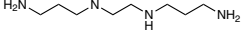
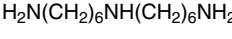
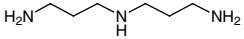
Polyamines

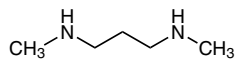
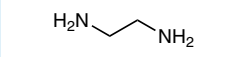
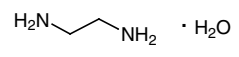
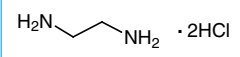
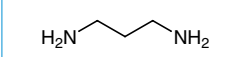
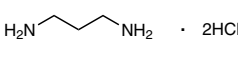
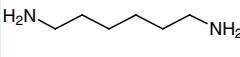
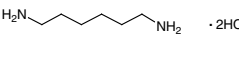
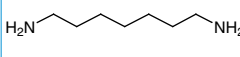
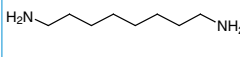
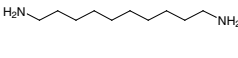
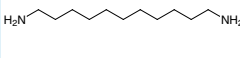
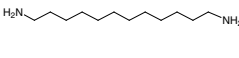
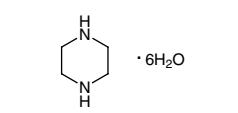
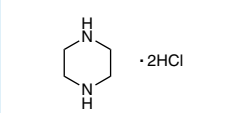
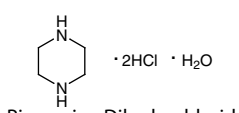
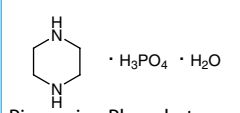
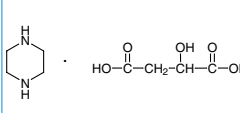
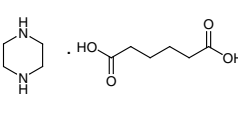
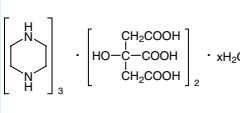
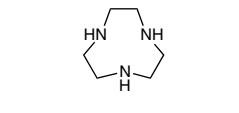
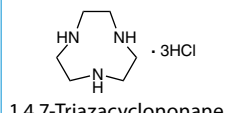
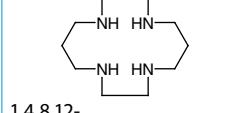
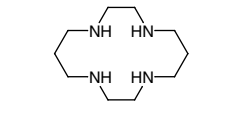
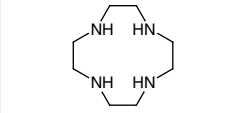
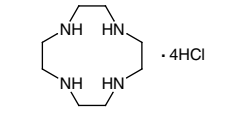
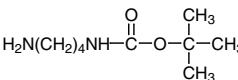
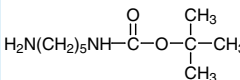
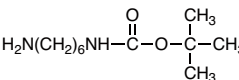
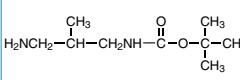
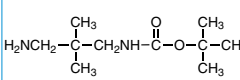
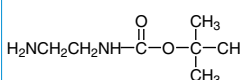
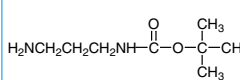
Polyamines are organic compounds having at least two amino groups as part of an otherwise aliphatic chain. The amino groups are usually separated by three or four methylene units, such as putrescine and spermine. Cyclen is the typical example of a class of cyclic polyamines. The polyamines are essential molecules in both eukaryotic and prokaryotic cells, and, therefore, have been isolated from all kinds of living organisms, including humans.¹⁾ Especially, the requirement for and the metabolism of polyamines are frequently dysregulated in cancer, and some polyamines can induce diseases caused by neurotoxins.²⁾ Thus, the polyamines, which are available by chemical synthesis, have been attractive for continuing with the study of diseases.³⁾

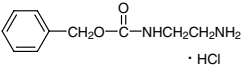
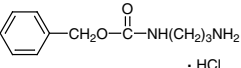
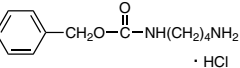
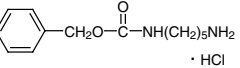
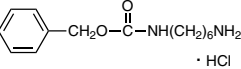
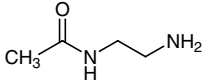
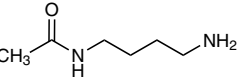
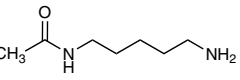
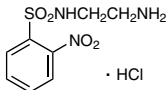
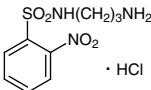
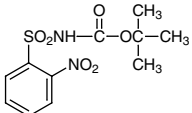
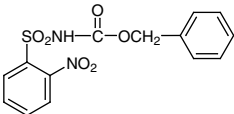
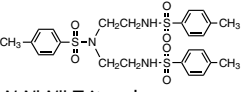
This brochure shows the typical polyamines and the reagents used for the polyamine chemical synthesis.

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Polyamines		Linear Polyamines		D0108	D0099
				5mL 25mL	5g 25g
					
				Cadaverine CAS RN: 462-94-2	Cadaverine Hydrochloride CAS RN: 1476-39-7
D0239	25g 400g	D0081	25g 500g	P3255	1g 5g
					
Putrescine CAS RN: 110-60-1		Putrescine Dihydrochloride CAS RN: 333-93-7		Spermidine CAS RN: 124-20-9	
				S0068	1g 5g
					
				Spermidine Phosphate CAS RN: 259244-14-9	
				S0385	1g
					
				Spermidine Phosphate Hexahydrate CAS RN: 49721-50-8	
P3251	1g 5g	S0069	1g 5g	B1468	5g 25g
					
Spermine CAS RN: 71-44-3		Spermine Phosphate Hexahydrate CAS RN: 58298-97-8		Spermine Tetrahydrochloride CAS RN: 306-67-2	
				X0080	250mg 1g
					
				Xylemin Dihydrochloride CAS RN: 89690-11-9	
				D0493	5mL 25mL 500mL
					
				Diethylenetriamine CAS RN: 111-40-0	
T0429	25mL 500mL	B1445	1g 5g	B1952	25mL 500mL
					
Triethylenetetramine CAS RN: 112-24-3		<i>N,N'</i> -Bis(2-aminoethyl)-1,3-propanediamine CAS RN: 4741-99-5		<i>N,N'</i> -Bis(3-aminopropyl)ethylenediamine CAS RN: 10563-26-5	
				B1814	25g 400g
					
				Bis(hexamethylene)-tri-amine CAS RN: 143-23-7	
				D0090	25mL 500mL
					
				3,3'-Diaminodipropylamine CAS RN: 56-18-8	

D3811 5g 25g  <i>N,N'</i> -Dimethyl-1,3-propanediamine CAS RN: 111-33-1	E0077 25mL 500mL  Ethylenediamine Anhydrous CAS RN: 107-15-3	E0081 25mL 500mL  Ethylenediamine Monohydrate CAS RN: 6780-13-8	E0078 25g 500g  Ethylenediamine Dihydrochloride CAS RN: 333-18-6	D0114 25mL 500mL  Trimethylenediamine CAS RN: 109-76-2
T0613 25g 100g  Trimethylenediamine Dihydrochloride CAS RN: 10517-44-9	D0095 25g 500g  Hexamethylenediamine CAS RN: 124-09-4	D0096 25g 100g 500g  Hexamethylenediamine Dihydrochloride CAS RN: 6055-52-3	D0094 5g 25g  Heptamethylenediamine CAS RN: 646-19-5	D0107 25g 100g  Octamethylenediamine CAS RN: 373-44-4
D0085 25g 100g  Decamethylenediamine CAS RN: 646-25-3	D2075 1g 5g  Undecamethylenediamine CAS RN: 822-08-2	D0091 5g 25g 100g 500g  Dodecamethylenediamine CAS RN: 2783-17-7	Cyclic Polyamines	
P0447 25g 500g  Piperazine Hexahydrate CAS RN: 142-63-2	P2491 1g 5g  Piperazine Dihydrochloride CAS RN: 142-64-3	P0450 25g 500g  Piperazine Dihydrochloride Monohydrate CAS RN: 142-64-3	P0492 25g 500g  Piperazine Phosphate Monohydrate CAS RN: 18534-18-4	P0451 25g  Piperazine DL-Malate CAS RN: 14852-14-3
P0448 25g 500g  Piperazine Adipate CAS RN: 142-88-1	P0449 25g 500g  Piperazine Citrate Hydrate CAS RN: 144-29-6	T1878 200mg 1g 5g  1,4,7-Triazacyclononane CAS RN: 4730-54-5	T1600 1g 5g  1,4,7-Triazacyclononane Trihydrochloride CAS RN: 58966-93-1	T1691 1g 5g  1,4,8,12-Tetraazacyclopentadecane CAS RN: 15439-16-4
T1597 1g 5g  Cyclam CAS RN: 295-37-4	T1874 1g 5g  Cyclen CAS RN: 294-90-6	T1426 1g 5g  Cyclen-4HCl CAS RN: 10045-25-7	N-Boc-diaminoalkanes	
Reagents for Polyamine Synthesis				
A1373 1g 5g 25g  <i>N</i> -Boc-1,4-diaminobutane CAS RN: 68076-36-8	A1374 1g 5g  <i>N</i> -Boc-1,5-diaminopentane CAS RN: 51644-96-3	A1375 1g 5g 25g  <i>N</i> -Boc-1,6-diaminohexane CAS RN: 51857-17-1	B2810 1g 5g  <i>N</i> -Boc-2-methyl-1,3-diaminopropane CAS RN: 480452-05-9	B3052 1g 5g  <i>N</i> -Boc-2,2-dimethyl-1,3-diaminopropane CAS RN: 292606-35-0
A1371 1g 5g 25g  <i>N</i> -Boc-1,2-diaminoethane CAS RN: 57260-73-8	A1372 1g 5g  <i>N</i> -Boc-1,3-diaminopropane CAS RN: 75178-96-0			

<p>N-Cbz-diamino-alkanes</p>	<p>C1511 1g 5g 25g</p>  <p><i>N</i>-Cbz-1,2-diaminoethane Hydrochloride CAS RN: 18807-71-1</p>	<p>C1512 1g 5g</p>  <p><i>N</i>-Cbz-1,3-diaminopropane Hydrochloride CAS RN: 17400-34-9</p>	<p>C1519 1g 5g</p>  <p><i>N</i>-Cbz-1,4-diaminobutane Hydrochloride CAS RN: 18807-73-3</p>	<p>C1520 1g 5g</p>  <p><i>N</i>-Cbz-1,5-diaminopentane Hydrochloride CAS RN: 18807-74-4</p>
<p>C1521 1g 5g</p>  <p><i>N</i>-Cbz-1,6-diaminohexane Hydrochloride CAS RN: 78618-06-1</p>	<p>N-Ac-diamino-alkanes</p>	<p>A0887 5g 25g</p>  <p><i>N</i>-Acetylenediamine CAS RN: 1001-53-2</p>	<p>A2392 5g</p>  <p><i>N</i>-Acetyl-1,4-butanediamine CAS RN: 5699-41-2</p>	<p>A2393 5g</p>  <p><i>N</i>-Acetyl-1,5-pentanediamine CAS RN: 32343-73-0</p>
<p>N-(o-Ns)-diamino-alkanes</p>	<p>A2329 1g</p>  <p><i>N</i>-(<i>o</i>-Ns)-1,2-diaminoethane Hydrochloride CAS RN: 92504-03-5</p>	<p>A2268 1g 5g</p>  <p><i>N</i>-(<i>o</i>-Ns)-1,3-diaminopropane Hydrochloride CAS RN: 863983-46-4</p>	<p>N-(o-Ns)-amines</p>	<p>B2303 1g 5g 25g</p>  <p><i>N</i>-Boc-2-nitrobenzenesulfonamide CAS RN: 198572-71-3</p>
<p>C1757 5g 25g</p>  <p><i>N</i>-Cbz-2-nitrobenzenesulfonamide CAS RN: 245365-64-4</p>	<p>N-Ts-amines</p>	<p>T1723 25g</p>  <p><i>N,N',N''</i>-Tritosyl-diethylenetriamine CAS RN: 56187-04-3</p>		

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