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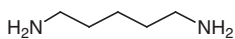
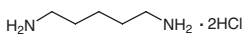
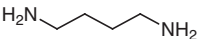
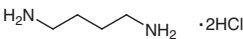
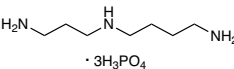
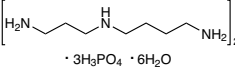
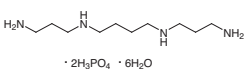
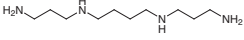
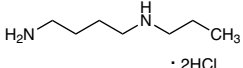
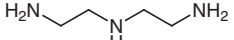
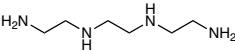
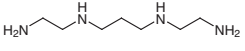
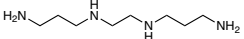
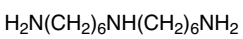
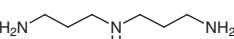
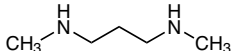
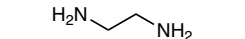
Polyamines

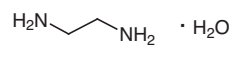
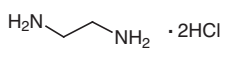
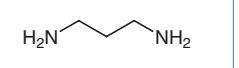
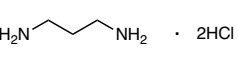
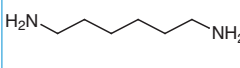
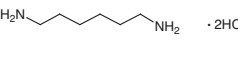
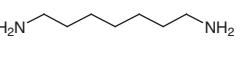
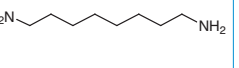
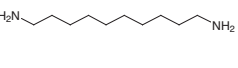
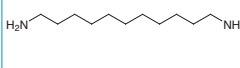
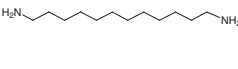
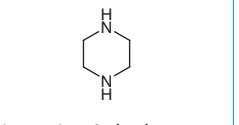
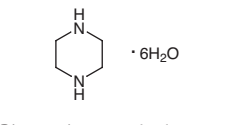
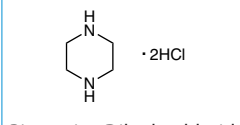
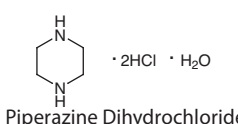
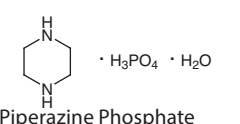
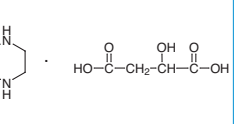
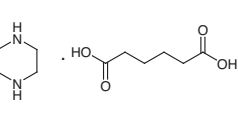
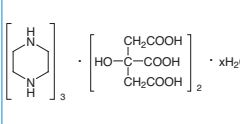
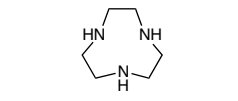
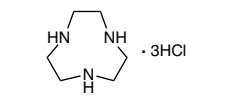
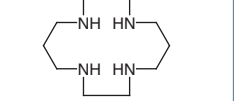
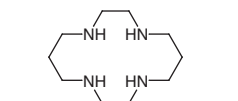
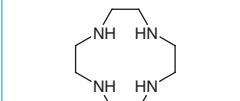
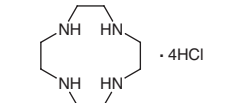
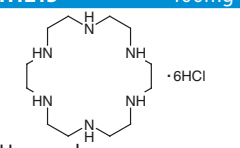
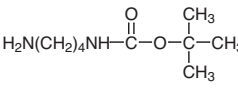
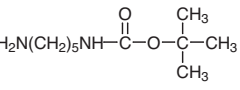
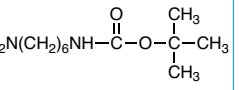
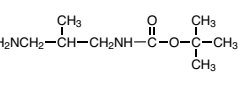
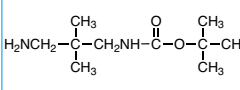
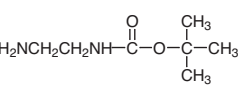
Polyamines are organic compounds having at least two amino groups as part of an otherwise aliphatic chain. The amino groups are usually separated by three or four methylene units, such as putrescine and spermine. Cyclen is the typical example of a class of cyclic polyamines. The polyamines are essential 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.

References

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- 2) a) E. W. Gerner, F. L. Meyskens Jr, *Nat. Rev. Cancer* **2004**, 4, 781.
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- 3) a) T. Fukuyama, M. Cheung, T. Kan, *Synlett* **1999**, 1301.
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c) Y. Hidai, T. Kan, T. Fukuyama, *Tetrahedron Lett.* **1999**, 40, 4711.
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Polyamines		Linear Polyamines		D0108 5mL 25mL	D0099 5g 25g
				 Cadaverine CAS RN: 462-94-2	 Cadaverine Hydrochloride CAS RN: 1476-39-7
D0239 25g 400g	D0081 25g 500g	S0068 1g 5g			
 Putrescine CAS RN: 110-60-1	 Putrescine Dihydrochloride CAS RN: 333-93-7	 Spermidine Phosphate CAS RN: 259244-14-9			
				 Spermidine Phosphate Hexahydrate CAS RN: 49721-50-8	 Spermine Phosphate Hexahydrate CAS RN: 58298-97-8
B1468 5g 25g	X0080 250mg 1g	D0493 5mL 25mL 500mL		T0429 25mL 500mL	B1445 1g 5g
 Spermine Tetrahydrochloride CAS RN: 306-67-2	 Xylemin Dihydrochloride CAS RN: 89690-11-9	 Diethylenetriamine CAS RN: 111-40-0		 Triethylenetetramine CAS RN: 112-24-3	 N,N'-Bis(2-aminoethyl)- 1,3-propanediamine CAS RN: 4741-99-5
B1952 25mL 500mL	B1814 25g 400g	D0090 25mL 500mL		D3811 5g 25g	E0077 25mL 500mL
 N,N'-Bis(3-aminopropyl)- ethylenediamine CAS RN: 10563-26-5	 Bis(hexamethylene)- triamine CAS RN: 143-23-7	 3,3'-Diaminodipropylamine CAS RN: 56-18-8		 N,N'-Dimethyl- 1,3-propanediamine CAS RN: 111-33-1	 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			
P0446 25g 500g  Piperazine Anhydrous CAS RN: 110-85-0	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	H1215 100mg  Hexacyclen Hexahydrochloride CAS RN: 58105-91-2			
Reagents for Polyamine Synthesis		N-Boc-diaminoalkanes		
A1373 1g 5g 25g  N-Boc-1,4-diaminobutane CAS RN: 68076-36-8	A1374 1g 5g  N-Boc-1,5-diaminopentane CAS RN: 51644-96-3	A1375 1g 5g 25g  N-Boc-1,6-diaminohexane CAS RN: 51857-17-1	B2810 1g 5g  N-Boc-2-methyl-1,3-diaminopropane CAS RN: 480452-05-9	B3052 1g 5g  N-Boc-2,2-dimethyl-1,3-diaminopropane CAS RN: 292606-35-0
		A1371 1g 5g 25g  N-Boc-1,2-diaminoethane CAS RN: 57260-73-8	A1372 1g 5g  N-Boc-1,3-diaminopropane CAS RN: 75178-96-0	

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