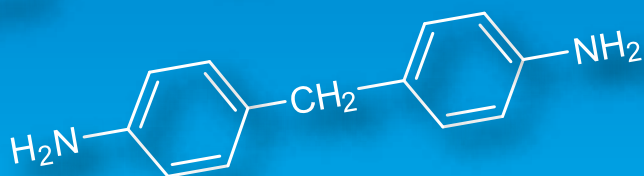
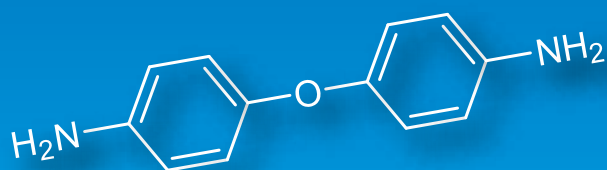
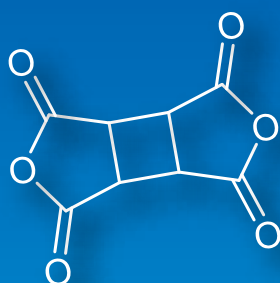
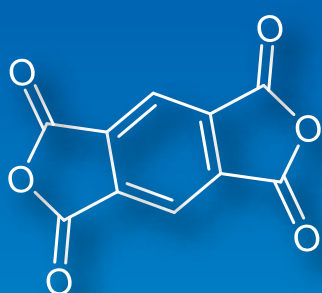


# Materials for Polyimide Synthesis



Tetracarboxylic Dianhydrides

Diamines

Diisocyanates

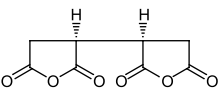
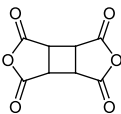
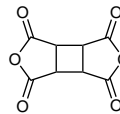
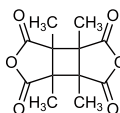
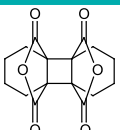
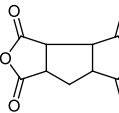
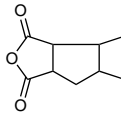
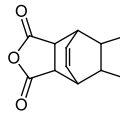
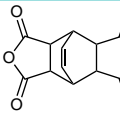
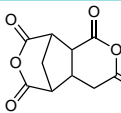
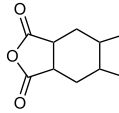
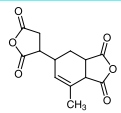
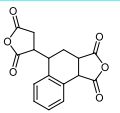
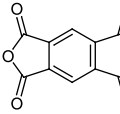
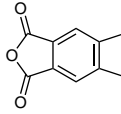
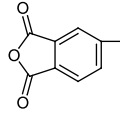
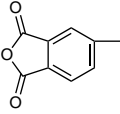
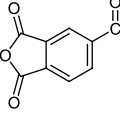
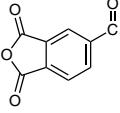
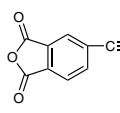
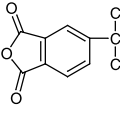
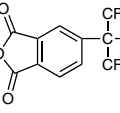
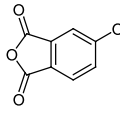
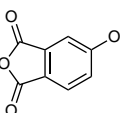
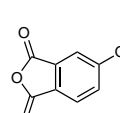
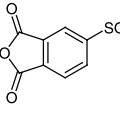
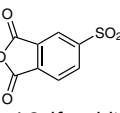
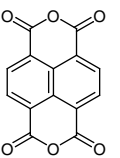
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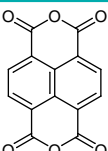
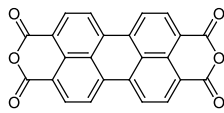
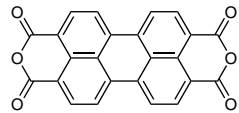
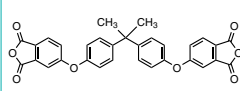
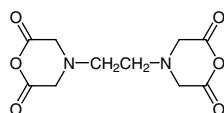
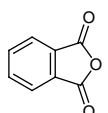
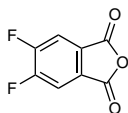
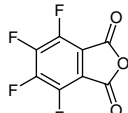
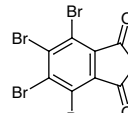
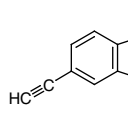
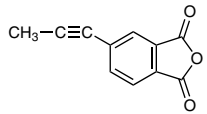
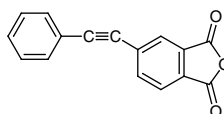
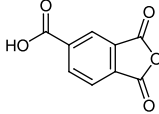
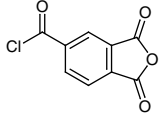
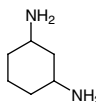
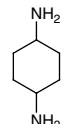
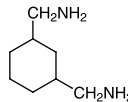
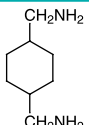
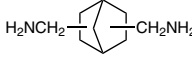

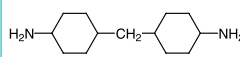
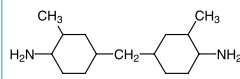
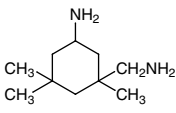
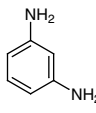
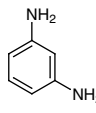
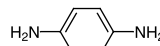
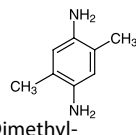
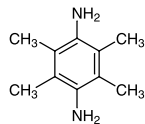
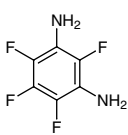
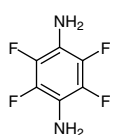
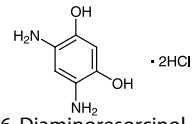
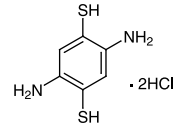
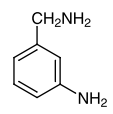
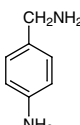
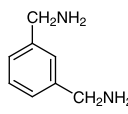
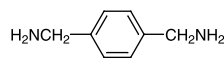
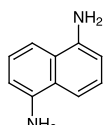
# Materials for Polyimide Synthesis

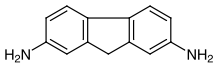
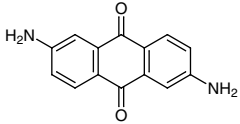
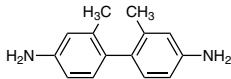
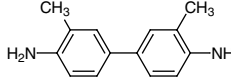
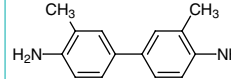
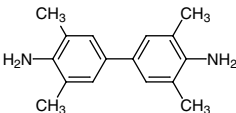
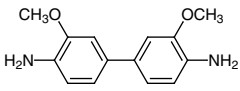
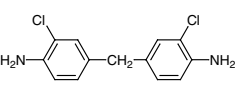
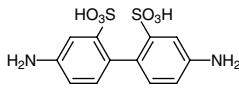
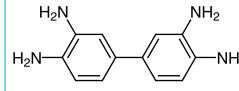
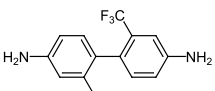
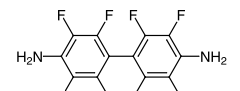
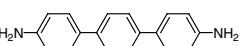
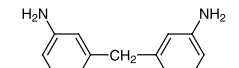
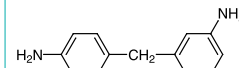
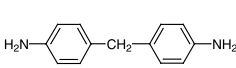
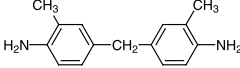
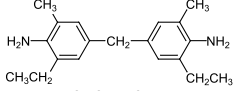
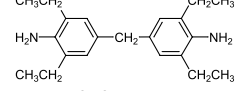
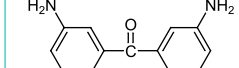
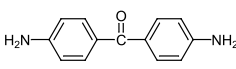
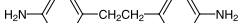
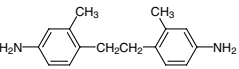
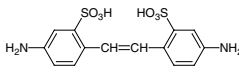
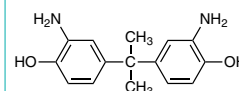
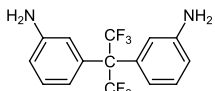
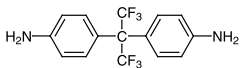
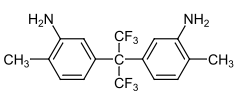
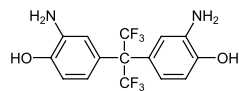
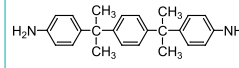
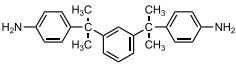
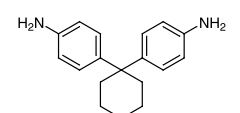
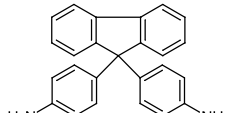
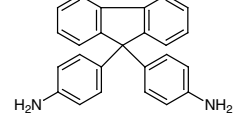
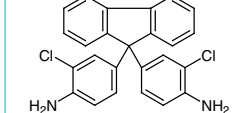
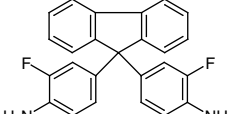
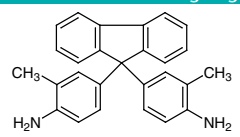
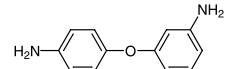
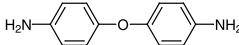
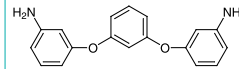
Polyimide is a generic name of polymers having imide bonds. Typically they have excellent heat resistance, chemical resistance, electrical insulation, and mechanical strength. Moreover, they have a relatively low coefficient of thermal expansion in organic compounds. And since they have only a few errors from expansion when used at high temperatures, they have been widely used for industrial products. For example

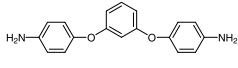
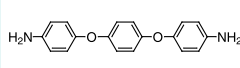
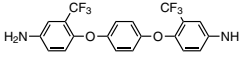
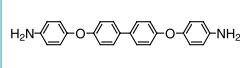
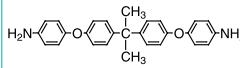
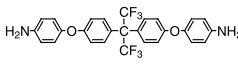
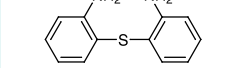
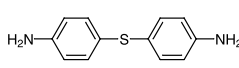
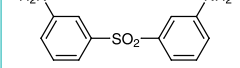
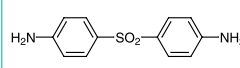
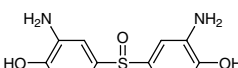
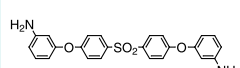
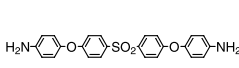
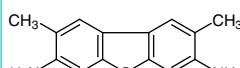
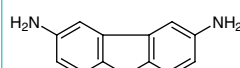
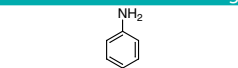
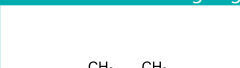
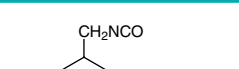
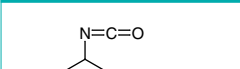
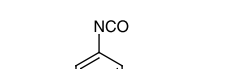

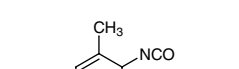
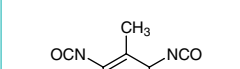
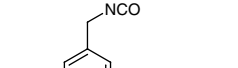
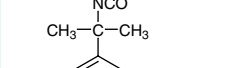
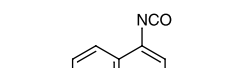
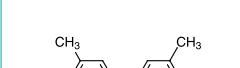

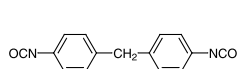
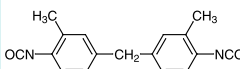
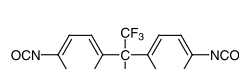
polyimides are used for flexible printed wiring boards in electronic devices, insulating material for electronic circuits and protection films for semiconductors, etc. Also, in the area of liquid crystal displays, polyimides are used as the alignment film to arrange liquid crystal molecules in one direction.

Our products for polyimide synthesis are shown as follows:

Tetracarboxylic Dianhydrides	
<b>B1770</b> 5g 25g	 <i>meso</i> -Butane-1,2,3,4-tetracarboxylic Dianhydride [17309-39-6]
<b>C2262</b> 1g 5g	 1,2,3,4-Cyclobutanetetracarboxylic Dianhydride [4415-87-6]
<b>C2842</b> 1g 5g	 1,2,3,4-Cyclobutanetetracarboxylic Dianhydride (purified by sublimation) [4415-87-6]
<b>T2697</b> 1g 5g	 1,2,3,4-Tetramethyl-1,2,3,4-cyclobutanetetracarboxylic Dianhydride [64198-16-9]
<b>T2698</b> 5g 25g	 Tricyclo[6.4.0.0 <sup>2,7</sup> ]-dodecane-1,8:2,7-tetracarboxylic Dianhydride [738-90-9]
<b>C0857</b> 5g 25g	 1,2,3,4-Cyclopentane-tetracarboxylic Dianhydride [6053-68-5]
<b>C2920</b> 1g 5g	 1,2,3,4-Cyclopentanetetracarboxylic Dianhydride (purified by sublimation) [6053-68-5]
<b>B1317</b> 25g 500g	 Bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxylic Dianhydride [1719-83-1]
<b>B4261</b> 5g 25g	 Bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxylic Dianhydride (purified by sublimation) [1719-83-1]
<b>C3110</b> 1g 5g	 3-(Carboxymethyl)-1,2,4-cyclopentanetricarboxylic Acid 1,4:2,3-Dianhydride [6053-46-9]
<b>C2419</b> 5g 25g	 1,2,4,5-Cyclohexanetetracarboxylic Dianhydride [2754-41-8]
<b>D1901</b> 25g 500g	 5-(2,5-Dioxotetrahydrofuryl)-3-methyl-3-cyclohexene-1,2-dicarboxylic Anhydride [73003-90-4]
<b>D2192</b> 25g	 4-(2,5-Dioxotetrahydrofuran-3-yl)-1,2,3,4-tetrahydronaphthalene-1,2-dicarboxylic Anhydride [13912-65-7]
<b>B0040</b> 25g 100g 500g	 Pyromellitic Dianhydride [89-32-7]
<b>P2103</b> 5g 25g	 Pyromellitic Dianhydride (purified by sublimation) [89-32-7]
<b>B1326</b> 25g	 4,4'-Bipthalic Anhydride [2420-87-3]
<b>B4262</b> 5g	 4,4'-Bipthalic Anhydride (purified by sublimation) [2420-87-3]
<b>B0948</b> 25g 100g 500g	 4,4'-Carbonyldipthalic Anhydride [2421-28-5]
<b>B4260</b> 5g 25g	 4,4'-Carbonyldipthalic Anhydride (purified by sublimation) [2421-28-5]
<b>E1164</b> 5g 25g	 4,4'-(Ethyne-1,2-diyl)-dipthalic Anhydride [129808-00-0]
<b>H0771</b> 5g 25g 100g	 4,4'-(Hexafluoroisopropylidene)dipthalic Anhydride [1107-00-2]
<b>H1438</b> 1g 5g	 4,4'-(Hexafluoroisopropylidene)dipthalic Anhydride (purified by sublimation) [1107-00-2]
<b>O0237</b> 25g 100g	 4,4'-Oxydipthalic Anhydride [1823-59-2]
<b>O0423</b> 5g	 4,4'-Oxydipthalic Anhydride (purified by sublimation) [1823-59-2]
<b>O0384</b> 1g 5g 25g	 3,4'-Oxydipthalic Anhydride [50662-95-8]
<b>D2309</b> 25g	 4,4'-Sulfonyldipthalic Anhydride [2540-99-0]
<b>D4554</b> 1g 5g	 4,4'-Sulfonyldipthalic Anhydride (purified by sublimation) [2540-99-0]
<b>N0369</b> 10g 25g 250g	 NTCDA [81-30-1]

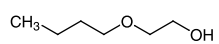
<b>N0755</b> 1g 5g  NTCDA (purified by sublimation) [81-30-1]	<b>P0972</b> 25g 100g 500g  3,4,9,10-Perylene-tetracarboxylic Dianhydride [128-69-8]	<b>P2102</b> 1g  3,4,9,10-Perylene-tetracarboxylic Dianhydride (purified by sublimation) [128-69-8]	<b>I0856</b> 25g 100g  4,4'-(4,4'-Isopropylidene-diphenoxy)diphthalic Anhydride [38103-06-9]	<b>E0480</b> 25g 100g  EDTA Dianhydride [23911-25-3]
<b>P1614</b> 500g  Phthalic Anhydride [85-44-9]	<b>D4716</b> 1g 5g  4,5-Difluorophthalic Anhydride [18959-30-3]	<b>T2381</b> 1g 5g  Tetrafluorophthalic Anhydride [652-12-0]	<b>T0046</b> 25g 100g  Tetrabromophthalic Anhydride [632-79-1]	<b>E0579</b> 1g 5g  4-Ethynylphthalic Anhydride [73819-76-8]
<b>M2757</b> 5g 25g  4-(1-Propynyl)phthalic Anhydride [1240685-26-0]	<b>P1437</b> 5g 25g  4-Phenylethynylphthalic Anhydride [119389-05-8]	<b>C0046</b> 25g 500g  Trimellitic Anhydride [552-30-7]	<b>T1079</b> 25g 500g  Trimellitic Anhydride Chloride [1204-28-0]	
<b>Diamines</b>				
		<b>C0813</b> 5mL 25mL  1,3-Cyclohexanediamine ( <i>cis</i> - and <i>trans</i> -mixture) [3385-21-5]	<b>C0814</b> 5mL 25mL  1,4-Cyclohexanediamine ( <i>cis</i> - and <i>trans</i> -mixture) [3114-70-3]	<b>B1005</b> 25mL 500mL  1,3-Bis(aminomethyl)-cyclohexane ( <i>cis</i> - and <i>trans</i> -mixture) [2579-20-6]
<b>B1083</b> 25g  1,4-Bis(aminomethyl)-cyclohexane ( <i>cis</i> - and <i>trans</i> -mixture) [2549-93-1]	<b>B3852</b> 25g 500g  Bis(aminomethyl)-norbornane (mixture of isomers) [56602-77-8]	<b>B1447</b> 25g 500g  Octahydro-4,7-methanoindene-1(2),5(6)-dimethanamine [6364-76-6]	<b>M0699</b> 25g 500g  4,4'-Methylenebis(cyclohexylamine) (mixture of isomers) [1761-71-3]	<b>M1422</b> 25mL 500mL  4,4'-Methylenebis(2-methylcyclohexylamine) (mixture of isomers) [6864-37-5]
<b>I0228</b> 25mL 500mL  Isophoronediamine ( <i>cis</i> - and <i>trans</i> -mixture) [2855-13-2]	<b>P1892</b> 25g 500g  1,3-Phenylenediamine [108-45-2]	<b>P1911</b> 25g 250g  1,3-Phenylenediamine [108-45-2]	<b>P0170</b> 25g 250g  1,4-Phenylenediamine [106-50-3]	<b>D2183</b> 25g 100g  2,5-Dimethyl-1,4-phenylenediamine [6393-01-7]
<b>T1457</b> 5g 25g  2,3,5,6-Tetramethyl-1,4-phenylenediamine [3102-87-2]	<b>T2019</b> 1g 5g  2,4,5,6-Tetrafluoro-1,3-phenylenediamine [1198-63-6]	<b>T1110</b> 1g  2,3,5,6-Tetrafluoro-1,4-phenylenediamine [1198-64-7]	<b>D1888</b> 5g 25g  4,6-Diaminoresorcinol Dihydrochloride [16523-31-2]	<b>D2022</b> 5g 25g  2,5-Diamino-1,4-benzenedithiol Dihydrochloride [75464-52-7]
<b>A1431</b> 5g 25g  3-Aminobenzylamine [4403-70-7]	<b>A1436</b> 25g 250g  4-Aminobenzylamine [4403-71-8]	<b>D0127</b> 25g 100g 500g  <i>m</i> -Xylylenediamine [1477-55-0]	<b>D1018</b> 25g 500g  <i>p</i> -Xylylenediamine [539-48-0]	<b>D0101</b> 25g 100g 500g  1,5-Diaminonaphthalene [2243-62-1]

<p><b>D0092</b> 1g 5g 25g</p>  <p>2,7-Diaminofluorene [525-64-4]</p>	<p><b>D3180</b> 25g 250g</p>  <p>2,6-Diaminoanthraquinone [131-14-6]</p>	<p><b>T3098</b> 25g</p>  <p>m-Tolidine [84-67-3]</p>	<p><b>T0253</b> 25g 250g</p>  <p>o-Tolidine [119-93-7]</p>	<p><b>T1913</b> 25g 100g</p>  <p>o-Tolidine [119-93-7]</p>
<p><b>T1023</b> 1g 5g 25g</p>  <p>TMB [54827-17-7]</p>	<p><b>D1344</b> 25g 100g 500g</p>  <p>o-Dianisidine [119-90-4]</p>	<p><b>M0609</b> 25g 500g</p>  <p>4,4'-Methylenebis(2-chloroaniline) [101-14-4]</p>	<p><b>B0395</b> 25g 500g</p>  <p>2,2'-Benzidinedisulfonic Acid (contains 30% Water at maximum) [117-61-3]</p>	<p><b>D0077</b> 5g 25g</p>  <p>3,3'-Diaminobenzidine [91-95-2]</p>
<p><b>B1711</b> 1g 5g 25g</p>  <p>2,2'-Bis(trifluoromethyl)-benzidine [341-58-2]</p>	<p><b>D1632</b> 5g</p>  <p>4,4'-Diaminooctafluorobiphenyl [1038-66-0]</p>	<p><b>D3390</b> 1g 5g</p>  <p>4,4''-Diamino-p-terphenyl [3365-85-3]</p>	<p><b>D1683</b> 1g 5g</p>  <p>3,3'-Diaminodiphenylmethane [19471-12-6]</p>	<p><b>D1684</b> 1g 5g 25g</p>  <p>3,4'-Diaminodiphenylmethane [19430-83-2]</p>
<p><b>M0220</b> 25g 500g</p>  <p>4,4'-Diaminodiphenylmethane [101-77-9]</p>	<p><b>D2046</b> 25g</p>  <p>4,4'-Diamino-3,3'-dimethyldiphenylmethane [838-88-0]</p>	<p><b>M1238</b> 25g</p>  <p>4,4'-Methylenebis(2-ethyl-6-methylaniline) [19900-72-2]</p>	<p><b>M1897</b> 25g 500g</p>  <p>4,4'-Methylenebis(2,6-diethylaniline) [13680-35-8]</p>	<p><b>D1682</b> 1g 5g</p>  <p>3,3'-Diaminobenzophenone [611-79-0]</p>
<p><b>D1561</b> 1g</p>  <p>4,4'-Diaminobenzophenone [611-98-3]</p>	<p><b>E0346</b> 5g 25g</p>  <p>4,4'-Ethylenedianiline [621-95-4]</p>	<p><b>D1658</b> 5g</p>  <p>4,4'-Diamino-2,2'-dimethylbiphenyl [54628-21-6]</p>	<p><b>D0121</b> 25g 500g</p>  <p>Amsonic Acid [81-11-8]</p>	<p><b>B4429</b> 5g 25g</p>  <p>2,2-Bis(3-amino-4-hydroxyphenyl)propane [1220-78-6]</p>
<p><b>B1704</b> 5g</p>  <p>2,2-Bis(3-aminophenyl)hexafluoropropane [47250-53-3]</p>	<p><b>B1400</b> 1g 5g 25g</p>  <p>2,2-Bis(4-aminophenyl)hexafluoropropane [1095-78-9]</p>	<p><b>B1397</b> 5g 25g</p>  <p>2,2-Bis(3-amino-4-methylphenyl)hexafluoropropane [116325-74-7]</p>	<p><b>B1415</b> 5g 25g</p>  <p>2,2-Bis(3-amino-4-hydroxyphenyl)hexafluoropropane [83558-87-6]</p>	<p><b>B1562</b> 25g 500g</p>  <p>α,α'-Bis(4-aminophenyl)-1,4-diisopropylbenzene [2716-10-1]</p>
<p><b>B3853</b> 25g</p>  <p>1,3-Bis[2-(4-aminophenyl)-2-propyl]benzene [2687-27-6]</p>	<p><b>B2076</b> 5g 25g</p>  <p>1,1-Bis(4-aminophenyl)cyclohexane [3282-99-3]</p>	<p><b>B1549</b> 25g 100g</p>  <p>9,9-Bis(4-aminophenyl)fluorene [15499-84-0]</p>	<p><b>B2654</b> 1g</p>  <p>9,9-Bis(4-aminophenyl)fluorene (purified by sublimation) [15499-84-0]</p>	<p><b>B2690</b> 5g</p>  <p>9,9-Bis(4-amino-3-chlorophenyl)fluorene [107934-68-9]</p>
<p><b>B2691</b> 5g</p>  <p>9,9-Bis(4-amino-3-fluorophenyl)fluorene [127926-65-2]</p>	<p><b>B2693</b> 5g 25g</p>  <p>9,9-Bis(4-amino-3-methylphenyl)fluorene [107934-60-1]</p>	<p><b>D1924</b> 5g 25g</p>  <p>3,4'-Diaminodiphenyl Ether [2657-87-6]</p>	<p><b>O0088</b> 25g 500g</p>  <p>4,4'-Diaminodiphenyl Ether [101-80-4]</p>	<p><b>B1370</b> 5g 25g</p>  <p>1,3-Bis(3-aminophenoxy)benzene [10526-07-5]</p>

<b>B1680</b> 25g  1,3-Bis(4-aminophenoxy)-benzene [2479-46-1]	<b>B1243</b> 25g  1,4-Bis(4-aminophenoxy)-benzene [3491-12-1]	<b>B4428</b> 5g 25g  1,4-Bis(4-amino-2-trifluoromethylphenoxy)-benzene [94525-05-0]	<b>B1671</b> 5g 25g  4,4'-Bis(4-aminophenoxy)-biphenyl [13080-85-8]	<b>B1551</b> 25g 250g  2,2-Bis[4-(4-aminophenoxy)phenyl]propane [13080-86-9]
<b>B1398</b> 5g 25g  2,2-Bis[4-(4-aminophenoxy)phenyl]hexafluoropropane [69563-88-8]	<b>B2928</b> 25g  Bis(2-aminophenyl) Sulfide [5873-51-8]	<b>T0632</b> 25g  Bis(4-aminophenyl) Sulfide [139-65-1]	<b>B0394</b> 25g 500g  Bis(3-aminophenyl) Sulfone [599-61-1]	<b>D0089</b> 25g 100g 500g  Bis(4-aminophenyl) Sulfone [80-08-0]
<b>B2859</b> 5g 25g  Bis(3-amino-4-hydroxyphenyl) Sulfone [7545-50-8]	<b>B1681</b> 25g  Bis[4-(3-aminophenoxy)phenyl] Sulfone [30203-11-3]	<b>B1682</b> 25g  Bis[4-(4-aminophenoxy)phenyl] Sulfone [13080-89-2]	<b>T1419</b> 25g  o-Tolidine Sulfone (contains 2,6-Dimethyl isomer) [55011-44-4]	<b>D2116</b> 1g 5g  3,6-Diaminocarbazole [86-71-5]
<b>T2728</b> 5g  1,3,5-Tris(4-aminophenyl)-benzene [118727-34-7]	<b>B1552</b> 5g 25g  1,3-Bis(3-aminopropyl)-tetramethyldisiloxane [2469-55-8]	<h2>Diisocyanates</h2>		
<b>B1538</b> 25mL 500mL  1,3-Bis(isocyanatomethyl)-cyclohexane ( <i>cis</i> - and <i>trans</i> -mixture) [38661-72-2]	<b>I0314</b> 25mL 500mL  Isophorone Diisocyanate (mixture of isomers) [4098-71-9]			
<b>P1092</b> 1g 5g  1,3-Phenylene Diisocyanate [123-61-5]	<b>P1640</b> 25g 250g  1,4-Phenylene Diisocyanate [104-49-4]	<b>T0263</b> 25g 500g  Toluene-2,4-diisocyanate [584-84-9]	<b>T1153</b> 1g 5g 25g  Toluene-2,6-diisocyanate [91-08-7]	<b>T0264</b> 25g 500g Toluene Diisocyanate (2,4- $\approx$ 80%, 2,6- $\approx$ 20%) [26471-62-5]
<b>X0022</b> 25g 100g 500g  m-Xylylene Diisocyanate [3634-83-1]	<b>B1442</b> 25g 500g  1,3-Bis(2-isocyanato-2-propyl)benzene [2778-42-9]	<b>N0168</b> 25g  1,5-Diisocyanatonaphthalene [3173-72-6]	<b>D2051</b> 25g 250g  4,4'-Diisocyanato-3,3'-dimethylbiphenyl [91-97-4]	<b>D1541</b> 5g 25g  3,3'-Dichloro-4,4'-diisocyanatobiphenyl [5331-87-3]
<b>D0897</b> 25g 500g  Methylenediphenyl 4,4'-Diisocyanate [101-68-8]	<b>D2097</b> 1g 5g  4,4'-Diisocyanato-3,3'-dimethyldiphenylmethane [139-25-3]	<b>B1509</b> 1g  2,2-Bis(4-isocyanatophenyl)-hexafluoropropane [10224-18-7]		

## Solvents

**B0698** 25mL 500mL



Ethylene Glycol Monobutyl Ether  
[111-76-2]

**B0767** 25mL 500mL



$\gamma$ -Butyrolactone [96-48-0]

**M0418** 25mL 100mL 500mL



1-Methyl-2-pyrrolidone  
[872-50-4]

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