

TABLE 8.1  
 FILTERS FOR USE WITH STANDARD ILLUMINANT A, IN ORDER TO CONVERT  
 IT TO STANDARD ILLUMINANTS B AND C

Each filter consists of two solutions, each one centimetre in thickness and  
 contained in a double cell made of colourless optical glass

Chemical	Quantities For S <sub>B</sub>	Quantities For S <sub>C</sub>
Copper Sulphate (CuSO <sub>4</sub> ·5H <sub>2</sub> O)	2.452 gm.	3.412 gm.
Mannite (C <sub>6</sub> H <sub>8</sub> (OH) <sub>6</sub> )	2.452 gm.	3.412 gm.
Pyridine (C <sub>5</sub> H <sub>5</sub> N)	30.0 c.c.	30.0 c.c.
Water (distilled) to make	1000 c.c.	1000 c.c.
Cobalt Ammonium Sulphate (CoSO <sub>4</sub> ·(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ·6H <sub>2</sub> O)	21.710 gm.	30.580 gm.
Copper Sulphate (CuSO <sub>4</sub> ·5H <sub>2</sub> O)	16.110 gm.	22.520 gm.
Sulphuric Acid (Sp.Gr. 1.835)	10.0 c.c.	10.0 c.c.
Water (distilled) to make	1000 c.c.	1000 c.c.