

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 _B	Quantities For S _C
Copper Sulphate (CuSO ₄ ·5H ₂ O)	2.452 gm.	3.412 gm.
Mannite (C ₆ H ₈ (OH) ₆)	2.452 gm.	3.412 gm.
Pyridine (C ₅ H ₅ N)	30.0 c.c.	30.0 c.c.
Water (distilled) to make	1000 c.c.	1000 c.c.
Cobalt Ammonium Sulphate (CoSO ₄ ·(NH ₄) ₂ SO ₄ ·6H ₂ O)	21.710 gm.	30.580 gm.
Copper Sulphate (CuSO ₄ ·5H ₂ 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.