

METRICAL MEASURES.

ALSO RELATION OF THE METRICAL MEASURES TO THE MEASURES OF THE BRITISH PHARMACOPEIA.

LENGTH.

- 1 Millimetre = the thousandth part of a metre, or 0·001 metre = 0·03937 inch.
- 1 Centimetre = the hundredth " " 0·01 " = 0·39371 "
- 1 Decimetre = the tenth part " " 0·1 " = 3·93708 inches.
- 1 Metre = 39·37079 inches, or 1 yard 3·37 inches nearly.
- 1 Line =  $\frac{1}{12}$  inch.
- 1 Inch =  $\frac{1}{12}$  foot. = 0·02540 metre, or 25·40 millimetres.
- 12 Inches = 1 foot. = 0·30480 metre, or 30·48 centimetres.
- 36 " = 3 feet = 1 yard. = 0·914399 metre.
- Length of pendulum vibrating seconds of mean time in the latitude of London, in a vacuum at the level of the sea } 39·1393 inches.

It is remarkable that the English and French standards, taken from such different sources, should so nearly agree:—

- The English, from the length of a pendulum vibrating seconds of mean time; from which the yard (36 inches) is computed } 39·1393.
- The French being the ten-millionth part of a quarter of the earth's meridian, and called a metre . . . . . } 39·37079.

CAPACITY.

- 1 Millilitre = 1·00016 cubic centimetre, or the volume of 1 gramme of water at 4°C.
- 1 Centilitre = " " 10 grammes " "
- 1 Decilitre = " " 100 " " "
- 1 Litre or } 1·0016 cubic decimetre " " (1 kilo) "
- 1000 Millilitres =
- 1 Cubic Centimetre = ·99984 millilitre.
- 1 Cubic Decimetre (1000 c.c.) = ·99984 litre.
- 1 Cubic Centimetre = 15·43235 grain-measures of 16·9 minims nearly.
- 1 Litre = 1·7598 pints, 35½ fl. oz. and 11 minims, or 15432·348 grain-measure.
- 1 Gallon = 4·5449631 litres.
- 1 Pint = ·5682454 litre, or 568·336 cubic centimetres nearly.
- 1 Fluid Ounce = ·0284123 litre, or 28·417 cubic centimetres nearly.
- 1 Fluid Drachm = ·003552 litre, or 3·552 cubic centimetres nearly.
- 1 Minim = ·000059 litre, or ·056 cubic centimetre nearly.