

METRICAL MEASURES.

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

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 = $\frac{1}{36}$ 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 } 39.1393 inches.
 latitude of London, in a vacuum at the level of the sea . }

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 } 39.1393.
 mean time; from which the yard (36 inches) is computed . . }
- The French being the ten-millionth part of a quarter of the } 39.37079.
 earth's meridian, and called a metre }

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 } 1.00016 cubic decimetre " 1000 " (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-measures.
- 1 Gallon = 4.5459631 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.