

Pharmaceutical capacity measures

<i>Nominal capacity of graduation test</i>				<i>Maximum permissible error on initial or in-service verification</i>	
500mL	....	...	...	±5.0mL	
200mL	....	...	...	±2mL	
100mL	....	...	...	±1mL	
50mL	....	...	...	±0.5mL	
25mL	....	...	...	±0.25mL	
20mL	....	...	...	±0.2mL	
10mL	....	...	...	±0.1mL	
5mL	....	...	...	±0.05mL	
2mL	....	...	...	±0.02mL	
1mL	....	...	...	±0.01mL	

*Maximum permissible errors on measuring pumps**Quantity delivered*

<i>Quantity delivered</i>				<i>Maximum permissible errors</i>	
				<i>Initial verification</i>	<i>In-service verification</i>
1L	...	...	...	±10 -0	±20 -10
5L	...	...	...	+25 -0	+50 -25
20L	...	...	...	+100 -0	+200 +100

MADE this 11th day of August, 2009.

DAVID O. CAREW,
Minister of Trade and Industry.

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THE WEIGHTS AND MEASURES ACT, 2009
(Act No. of 2009)

**THE WEIGHTS AND MEASURES
(PERMISSIBLE ERRORS) REGULATIONS, 2009**

Short title.

IN EXERCISE of the powers conferred on the Minister of Trade and Industry by section 33 of the Weights and Measures Act, 2009, the Minister of Trade and Industry hereby makes these Regulations—

1. The following shall be the permissible margin of error for any weight, measure or instrument for weighing or measuring: Permissible margin of error.

(a) TOLERANCES OF MASSES

Masses other than those used for precious metals and stones

<i>Mass Denomination</i>				<i>Maximum permissible error (mg)</i>	
				<i>Initial verification</i>	<i>In-service verification</i>
50 kg	...	...	...	+8000	+8000 -8000
20 kg	...	...	...	+3200	+3200
				-0	-3200

Mass denomination

Maximum permissible error (mg)

				<i>Initial verification</i>	<i>In-service verification</i>
10 kg	...	...	...	+1600 -0	+1600 -600
5 kg	...	...	...	+800 -0	+800 -800
2 kg	...	...	...	+400 -0	+400 -400
1 kg	...	...	...	+200 -0	+200 -200
500 g	...	...	...	+100 -0	+100 -100
200 g	..	...	...	+50 -0	+50 -50
100 g	..	...	...	+30 -0	+30 -30
50 g	..	...	...	+30 -0	+30 -30
20 g	..	...	...	+20 -0	+20 -20
10 g	..	...	...	+20 -0	+20 -20
5 g	..	...	...	+10 -0	+10 -10
2 g	..	...	...	+5 -0	+5 -5
1 g	..	...	...	+5 -0	+5 -5

(b) CARAT MASSES AND GRAM MASSES

USED FOR PRECIOUS METALS, STONES AND PEARLS

<i>Mass denomination carat (Metric)</i>				<i>Mass in mg</i>	<i>Maximum permissible errors, mg</i>	
					<i>Initial verification</i>	<i>In-service verification</i>
500	...	...	...	100,000	+8 -0	+8 -4
-	...	...	...	50,000	+6 -0	+6 -3
200	...	...	...	(40,000)	+6	+6
100	...	...	...	20,000	+5 -0	+5 -2.5
50	...	...	...	10,000	+4 -0	+4 -2
-	...	...	...	5,000	+3 -0	+3 1.5
20	...	...	...	(4,000)	+3 -0	+3 -1.5
10	...	...	...	2,000	+2 -0	+2 -1
5	...	...	...	1,000	+1 -0	+1 -0.5
-	...	...	...	500	+0.8 -0	+0.8 -0.4
2	...	...	...	(400)	+0.8 -0	+0.8 -0.4

Mass denomination carat (Metric)	Mass in mg	Maximum permissible errors, mg	
		Initial verification	In-service verification
1	200	+0.6 -0	+0.6 -0.3
0.5	100	+0.4 -0	+0.4 -0.2
0.2	50	+0.2	+0.2
	(40)	+0.2 -0	+0.2 -0.1
0.1	20	+0.2 -0	+0.2 -0.1
	10	+0.1	+0.1
0.05	50	+0.2	+0.2
	(40)	+0.2 -0	+0.2 -0.1
0.01	20	+0.2 -0	+0.2 -0.1
	10	+0.1	+0.1
0.05	5	+0.1 -0	+0.1 -0.05
	10	+0.1	+0.1
0.02	(4)	+0.1	+0.1
0.01	2	+0.1 -0	+0.1 -0.05
	1	+0.1 -0	+0.1 -0.05

(c) **MAXIMUM PERMISSIBLE ERRORS OF WEIGHING INSTRUMENTS**

WEIGHING INSTRUMENTS OF ORDINARY ACCURACY

Graduated instruments (n > 1 000) (1)

Maximum capacity carat (Metric)	Load range	Maximum permissible errors	
		Initial verification	In-service verification
All capacities	10 d to 500 d (2)	±0.5 d (2)	± d
	500 d to 2 000 d	± d	± 2 d
	2 000 d	± 1.5 d	± 3 d

Non-graduated instruments

Maximum capacity (3)	Load range	Maximum permissible errors	
		Initial verification	In-service verification
0 to and including 2kg	50 g to 250 g	± 2.5 g	± 5 g
	250 g to 1 kg	± 5g	± 10 g
	1 kg	± 7.5 g	± 15 g
4 kg	100 g to 500 g	± 5 g	± 10 g
	500 g to 2 kg	± 10 g	± 20 g
	2 kg	± 15 g	± 30 g
10 kg	250 g to 1 250 g	± 12.5g	± 25 g
	1 250 g to 5 kg	± 25 g	± 50 g
	5 kg	± 37.5 g	± 75 g
20 kg	500 g to 2.5 kg	± 25 g	± 50 g
	2 kg to 10 kg	± 5 g	± 100 g
	> 10 kg	± 75	± 150 g
40 kg	1 kg to 5 kg	± 50 g	± 100 g
	5 kg to 20 kg	± 100 g	± 200 g
	20 g	± 150 g	± 300 g
100kg	2.5 kg to 12.5 kg	± 250 g	± 750 g

- (1) n is the maximum capacity divided by the value of scale interval d.
(2) d is the value of the scale interval in units of mass.
(3) for maximum capacities other than 11 stod the next smaller capacity is taken.

(d) WEIGHING INSTRUMENTS OF MEDIUM ACCURACY*Graduated instruments (n > 1 000) (1)*

Maximum capacity carat (Metric)	Load range	Maximum permissible errors	
		Initial verification	In-service verification
II Capacity	10 d to 500 d ⁽²⁾	± 0.5 d ⁽²⁾	± d
	500 d to 2 000 d	± d	± 2 d
	2 000 d	± 1.5 d	± 3 d

(1) n is the maximum capacity divided by the value of scale interval d.

(2) d is the value of the scale interval in units of mass.

(e) MAXIMUM PERMISSIBLE ERRORS ON LENGTH*Rigid and folding measures*

	Maximum permissible error	
	Initial verification	In-service verification
	± (0.6 + 0.5 D) mm	± (1.2 + 1.0 D) mm

(Where D) – distance between the two tested graduation lines in metres rounded to the nearest higher 0.5 m.

*Steel measuring tapes**accuracy class*

	Maximum permissible errors	
	Initial verification	In-service verification
A	± (0.3 + 0.3 D) mm	± (0.6 + 6D) mm
B	± (0.6 + 0.5 D) mm	± (1.2 + 1.0 D) mm

Where D distance between the two tested graduation lines in metres rounded to the nearest higher whole number of metres.

(f) MAXIMUM PERMISSIBLE ERRORS ON CAPACITY MEASURES*Errors on capacity measures other than pharmaceutical measures*

Maximum capacity	Maximum permissible errors	
	Initial verification	In-service verification
20L	+1000 -0	+200 -100
10L	75 -0	+150 -75
5L	-50 -0	+100 -50
2L	+30 -0	+60 -30
1L	15 -0	+30 -15
500mL	+10 -0	+20 +10
200mL	+5 -0	+10 -5
100mL	+3 -0	+6 -3
50mL	+2 -0	+4 -2
25mL	+1 -0	+2 -1
20mL	+0.8 -0	+1.6 -0.8
mL	-0	-0.4