



# OIML R 79

## Annex A

### Units of measurement and symbols (Mandatory)



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## Annex A

### Units of measurement

- Shall be expressed in either **words** or **symbols**
- Table A.1 provides the **unit** and the appropriate **symbol** for measurement
- Table A.2 indicates the **correct unit** within Table A.1 to use dependant on the type of measurement and the quantity of product

## Annex A Table A.1 – Units of measurement

Unit	Symbol	Unit	Symbol
milligram	mg	centimetre	cm
gram	g	metre	m
kilogram	kg	square millimetre	mm <sup>2</sup>
tonne	t	square centimetre	cm <sup>2</sup>
millilitre	mL or ml	square decimetre	dm <sup>2</sup>
centilitre	cL or cl	square metre	m <sup>2</sup>
litre	L or l	cubic centimetre	cm <sup>3</sup>
micrometre	µm	cubic decimetre	dm <sup>3</sup>
millimetre	mm	cubic metre	m <sup>3</sup>



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### Units of measurement

- Neither a **full stop** nor the letter “s” should be used after any of the symbols
- The alternative symbol for the litre, **L**, is used in order to avoid the risk of confusion of the letter “l” and the number “1”



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### Units of measurement

- A **single space** between the number and the unit of measurement must be used (i.e. 12 ml or 45 g)
- **Other phrases** may be used in connection with the quantity declaration and may appear **before** or **after** the quantity declaration...



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### Units of measurement

- “content”
  - “contents”
  - “quantity”
  - “mass”
  - “weight”
- “net”
  - “net mass”
  - “net weight”
  - “net contents”
  - “net quantity”



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### Units of measurement

Ambiguous terms **shall not** be used:

- “approximately”
- “standard”
- “when packed”



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## Annex A Table A.2 – Choice of units

Type of measurement	Quantity of product ( $q$ )	Units
Volume (liquids)	$q < 1000 \text{ mL}$ $1000 \text{ mL} \leq q$	mL (ml) L (l)
Volume - cubic (solids)	$q \leq 1000 \text{ cm}^3$ (1 dm <sup>3</sup> ) $1 \text{ dm}^3 < q < 1000 \text{ dm}^3$ $1000 \text{ dm}^3 \leq q$	cm <sup>3</sup> , mL (ml) dm <sup>3</sup> , L (l) m <sup>3</sup>
Mass	$q < 1 \text{ g}$ $1 \text{ g} \leq q < 1000 \text{ g}$ $1000 \text{ g} \leq q$	mg g kg or t

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## Annex A Table 2 – Choice of units (continued)

Type of measurement	Quantity of product ( $q$ )	Units
Length	$q < 1 \text{ mm}$ $1 \text{ mm} \leq q < 100 \text{ cm}$ $100 \text{ cm} \leq q$	$\mu\text{m}$ or mm mm or cm m
Area	$q < 100 \text{ cm}^2$ (1 dm <sup>2</sup> ) $1 \text{ dm}^2 \leq q < 100 \text{ dm}^2$ (1 m <sup>2</sup> ) $1 \text{ m}^2 \leq q$	mm <sup>2</sup> or cm <sup>2</sup> dm <sup>2</sup> m <sup>2</sup>



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### Units of measurement

Complete quiz 1, 2 & 3