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**SANS 241-1:2015**

Edition 2

# **SOUTH AFRICAN NATIONAL STANDARD**

## **Drinking water**

### **Part 1: Microbiological, physical, aesthetic and chemical determinands**

**WARNING**

**This document references other  
documents normatively.**

**SANS 241-1:2015**  
Edition 2

**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>

**Foreword**

This South African standard was approved by National Committee SABS/TC 147, *Water*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in March 2015.

This document supersedes SANS 241-1:2011 (edition1).

**This document is referenced in the Water Services Act, 1997 (Act No. 108 of 1997): Regulations relating to the compulsory national standards and measures to conserve water, as published by Government Notice No. 509 (Government Gazette No. 22355) of 8 June 2001, the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act No. 54 of 1972), the National Health Act, 2003 (Act No. 61 of 2003), the Constitution of RSA, 1996 (Act No. 108 of 1996), and the Local Government: Municipal Systems Act, 2000 (Act No. 32 of 2000).**

Reference is made in 3.1.13.1 to the "relevant national legislation". In South Africa this means the Local Government: Municipal Structures Act (Act No. 117 of 1998) and the Water Services Act (Act No. 108 of 1997), respectively.

The World Health Organization *Guidelines for drinking-water quality* was used as a guide in deriving the numerical limits given. In the event of changes to specific determinand limits by the WHO, these changes may be implemented in SANS 241 on approval by TC 147.

SANS 241 consists of the following parts, under the general title *Drinking water*:

*Part 1: Microbiological, physical, aesthetic and chemical determinands.*

*Part 2: Application of SANS 241-1.*

Annex A is for information only.

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## **Drinking water**

### **Part 1:**

Microbiological, physical, aesthetic and chemical determinands

## **1 Scope**

**1.1** This part of SANS 241 specifies the quality of acceptable drinking water, defined in terms of microbiological, physical, aesthetic and chemical determinands.

**1.2** Water that complies with this part of SANS 241 is deemed to present an acceptable health risk for lifetime consumption (this implies an average consumption of 2 L of water per day for 70 years by a person that weighs 60 kg).

**1.3** Water services institutions or water services intermediaries (or both) should ensure that water provided by them complies with the numerical limits given in this part of SANS 241.

**1.4** Water services institutions or water services intermediaries (or both) should monitor and maintain monitoring programmes informed by the routine water quality monitoring programme and risk assessment processes described in SANS 241-2.

## **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

SANS 241-2, *Drinking water – Part 2: Application of SANS 241-1*.

World Health Organization (WHO), *Guidelines for drinking-water quality*, Fourth edition, Volume 1, 2011.<sup>1)</sup>

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1) [http://www.who.int/water\\_sanitation\\_health/dwg/guidelines/en/index.html](http://www.who.int/water_sanitation_health/dwg/guidelines/en/index.html)