

SANS 241: 2015 Limits

Analyses in mg/ℓ (Unless specified otherwise)	Risk	SANS 241 : 2015 Limits
pH - Value @ 25 °C	Operational	≥5 to ≤ 9.7
Electrical Conductivity in mS/m @ 25°C	Aesthetic	≤170
Total Dissolved Solids @ 180°C	Aesthetic	≤1200
Colour in PtCo Units	Aesthetic	≤15
Turbidity in N.T.U	Operational/Aesthetic	≤1 / ≤5
Total Alkalinity as CaCO ₃	---	---
Langelier Index at 25°C	---	---
Chloride as Cl	Aesthetic	≤300
Sulphate as SO ₄	Acute health/Aesthetic	≤500 / ≤250
Fluoride as F	Chronic health	≤1.5
Nitrate as N	Acute health	≤11
Nitrite as N	Acute health	≤0.9
Combined Nitrate & Nitrite	Acute health	≤1
Silica as SiO ₂	---	---
Total Organic Carbon as C	Chronic health	≤10
E. coli / (100 mℓ)	Acute health	Not detected
Free and Saline Ammonia as N	Aesthetic	≤1.5
Sodium as Na	Aesthetic	≤200
Potassium as K	---	---
Calcium as Ca	---	---
Magnesium as Mg	---	---
Aluminium as Al (µg/ℓ)	Operational	≤300
Antimony as Sb (µg/ℓ)	Chronic health	≤20
Arsenic as As (µg/ℓ)	Chronic health	≤10
Barium as Ba (µg/ℓ)	Chronic health	≤700
Boron as B (µg/ℓ)	Chronic health	≤2400
Cadmium as Cd (µg/ℓ)	Chronic health	≤3
Total Chromium as Cr (µg/ℓ)	Chronic health	≤50
Copper as Cu (µg/ℓ)	Chronic health	≤2000
Iron as Fe (µg/ℓ)	Chronic health/Aesthetic	≤ 2000 / ≤300
Lead as Pb (µg/ℓ)	Chronic health	≤10
Manganese as Mn (µg/ℓ)	Chronic health/Aesthetic	≤ 400 / ≤100
Mercury as Hg (µg/ℓ)	Chronic health	≤6
Nickel as Ni (µg/ℓ)	Chronic health	≤70
Selenium as Se (µg/ℓ)	Chronic health	≤40
Uranium as U (µg/ℓ)	Chronic health	≤ 30
Zinc as Zn	Aesthetic	≤5