



**PRODUCT CODE: 765910**

**Germanium standard solution Ge=1.000 g/l for ICP**

(Ge in HNO<sub>3</sub> 2-5% + traces HF) for ICP

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**The solution of the element at the concentration given about, is NIST standard traceable .**

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water • D 20/4 1,01 • M.P.: 0 °C • B.P.: 100 °C •

**BIBLIOGRAPHY:**

**HAZARDOUS:** VLA-EC (HNO<sub>3</sub>) 4 ppm10 mg/m<sup>3</sup> VLA-ED (HNO<sub>3</sub>) 2 ppm5,2 mg/m<sup>3</sup>



H: H319 • H335 • H315 •

P: P261 • P264 • P271 • P280 • P302+P352 • P501 • P304+P340 • P305+P351+P338 • P312 • P321 • P332+P313  
• P337+P313 • P362 • P403+P233 • P405 •

**TRANSPORT REGULATIONS:** UN: 1760 • ADR: 8/III • IMDG: 8/III • IATA: 8/III • PAX: 852 • CAO: 856 • (E) •

**WEIGHT/VOLUME INFORMATION:** 1l~1,01 kg      1kg~0,99 l

**SPECIFICATIONS:**

Composition 1 g Ge / l in HNO<sub>3</sub> 2-5% + traces HF

Concentration (as Ge)

Uncertainty

Traceability

0,990-1,010 g/l

See certificate

NIST

Method of analysis

ICP-OES

**Maximum limit of impurities**

**Metals by ICP [in mg/Kg (ppm)]**

Ag	0,002
Al	0,004
As	0,008
Au	0,002
B	0,007
Ba	0,003
Be	0,003
Bi	0,003
Ca	0,009
Cd	0,002
Ce	0,002
Co	0,002
Cr	0,002
Cs	0,002
Cu	0,002
Dy	0,002
Er	0,002
Eu	0,002
Fe	0,007
Ga	0,003
Gd	0,002
Hf	0,002
Hg	0,002
Ho	0,002
In	0,006
Ir	0,002
K	0,007
La	0,002
Li	0,003
Lu	0,002
Mg	0,007
Mn	0,002
Mo	0,003
Na	0,011
Nb	0,002
Nd	0,002
Ni	0,003
Os	0,002
P	0,006
Pb	0,003
Pd	0,009
Pr	0,002
Pt	0,002
Rb	0,002
Re	0,002
Rh	0,002
Ru	0,002
S	0,034
Sb	0,004
Sc	0,002
Se	0,004
Si	0,211
Sm	0,002

Sn	0,006
Sr	0,002
Ta	0,002
Tb	0,002
Te	0,003
Th	0,002
Ti	0,002
Tl	0,003
Tm	0,002
U	0,002
V	0,002
W	0,002
Y	0,002
Yb	0,002
Zn	0,005
Zr	0,002