



PRODUCT CODE: 765908

Gadolinium standard solution Gd=1.000 g/l for ICP
(Gd₂O₃ in HNO₃ 2-5%) for ICP

TARIC 3822 00 00 00

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 1,02 • M.P.: -3 °C • B.P.: 101 °C •

BIBLIOGRAPHY:

HAZARDOUS: VLA-EC (HNO₃) 4 ppm 10 mg/m³ VLA-ED (HNO₃) 2 ppm 5,2 mg/m³



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~1,02 kg 1kg~0,98 l

SPECIFICATIONS:

Composition 1,16 g Gd₂O₃ / l in HNO₃ 2-5%

Concentration (as Gd)

Uncertainty

Traceability

Method of analysis

0,990-1,010 g/l

See certificate

NIST

ICP-OES

Maximum limit of impurities
Metals by ICP [in mg/Kg (ppm)]

| | |
|----|-------|
| Ag | 0,003 |
| Al | 0,014 |
| As | 0,005 |
| Au | 0,002 |
| B | 0,006 |
| Ba | 0,002 |
| Be | 0,004 |
| Bi | 0,002 |
| Ca | 0,018 |
| Cd | 0,002 |
| Ce | 0,013 |
| Co | 0,002 |
| Cr | 0,002 |
| Cs | 0,002 |
| Cu | 0,002 |
| Dy | 0,003 |
| Er | 0,003 |
| Eu | 0,003 |
| Fe | 0,006 |
| Ga | 0,004 |
| Ge | 0,002 |
| Hf | 0,002 |
| Hg | 0,002 |
| Ho | 0,004 |
| In | 0,003 |
| Ir | 0,002 |
| K | 0,011 |
| La | 0,006 |
| Li | 0,003 |
| Lu | 0,003 |
| Mg | 0,007 |
| Mn | 0,003 |
| Mo | 0,003 |
| Na | 0,013 |
| Nb | 0,002 |
| Nd | 0,013 |
| Ni | 0,004 |
| Os | 0,002 |
| P | 0,004 |
| Pb | 0,002 |
| Pd | 0,009 |
| Pr | 0,013 |
| Pt | 0,002 |
| Rb | 0,002 |
| Re | 0,002 |
| Rh | 0,002 |
| Ru | 0,002 |
| S | 0,031 |
| Sb | 0,002 |
| Sc | 0,003 |
| Se | 0,002 |
| Si | 0,03 |
| Sm | 0,007 |
| Sn | 0,002 |
| Sr | 0,002 |
| Ta | 0,002 |

| | |
|----|-------|
| Tb | 0,013 |
| Te | 0,002 |
| Th | 0,002 |
| Ti | 0,002 |
| Tl | 0,002 |
| Tm | 0,004 |
| U | 0,002 |
| V | 0,002 |
| W | 0,002 |
| Y | 0,013 |
| Yb | 0,006 |
| Zn | 0,033 |
| Zr | 0,002 |

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