

**Iodine, solution 0,5 mol/l (1 N)****Identification**

I<sub>2</sub>  
M = 253,81 g/mol  
CAS [7553-56-2]  
EC number: 231-442-4  
Taric code: 2801 20 00

**Applications**

analytical chemistry, titrant in volumetric analysis.

**Specifications**

factor..... 0,995 - 1,005  
uncertainty ± 0,001

1 ml = 0,127 g I<sub>2</sub>

This volumetric solution was checked by means of potentiometric methods using a sodium thiosulfate standard solution, that was also checked against Scharlau's potassium iodate volumetric standard. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

**Physical data**

- Density: 1,27 g/cm<sup>3</sup>
- pH(20 °C) ~ 6,8

**Safety - GHS**

Signal Word: Warning

**Hazard Statements:**

H332: Harmful if inhaled.

**Precautionary Statements:**

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P271: Use only outdoors or in a well-ventilated area.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312: Call a POISON CENTER or doctor / physician if you feel unwell.

**Transport/storage**

- 10°C - 30°C