

BROMINE

Technical Grade

Technical Data Sheet

Date of edition: 29/01/2024 Edition no.: 1



Product Data

Chemical Name	Bromine
Molecular Weight	159.82 g/mol
REACH registration nr.	01-2119461714-37-0031
Chemical formula	Br ₂
C.A.S. number	7726-95-6
UN number	1744

Applications

- Bromine is employed as a reagent and catalyst in a variety of chemical synthesis processes. For example, it's used in the manufacturing of dyes and specific types of plastic like Polyvinyl bromide.
- Bromine can be used as an oxidizing agent for the oxidation of:
 - Primary alcohols to either aldehydes or esters and secondary alcohols to give ketones.
 - Alcohols or diols to tetrahydrofurans in the presence of silver(I) salts.

Specification*

Test	Requirements
Appearance (visual)	Dark reddish brown liquid
Assay	min. 99,5 %, m/m
Boiling point (°C)	59
Chlorine	max. 0,5 %, m/m
Iodine	max. 0,2 %, m/m
Sulphate	max. 0,2 %, m/m
Heavy metals	max. 0,2 %, m/m
Moisture content	max. 0,1 %, m/m
Non volatile matter	max. 0,2 %, m/m

Hazard classification and safety measures

Bromine is highly corrosive and can cause burns. Inhalation of fumes can lead to coughing, difficulty breathing, headache, and watery eyes.

Precautions to handle the element: Handle with care using gloves and goggles. Work in a well-ventilated area.

For more information, please take a look at our safety data sheets.

Packing and storage

In 3-kg glass bottle that comply with all ADR regulations. Keep the material in a tight container. If package is fragile, keep it in a closed, unbreakable container, protected from sunlight, in a dry, cool place designed for this purpose. Keep away from foodstuff, feed and incompatible materials. Keep in a well-ventilated place.

The information above is based on our most recent knowledge. Application and processing of the material after sale is beyond our control and we cannot assume responsibility for any use of this product outside our premises. The data and information presented above should be considered as guidance only. Our TDS shall not constitute a guarantee for any specific properties

Vinyl Kft.

Registered address: H-3524 Miskolc Adler Károly u.19.

phone: +36 46 432 633

www.vinyl.hu

Production site: H-1097 Budapest Illatos út 19-23.

e-mail: info@vinyl.hu