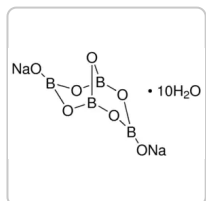


Type in Product Names, Product Numbers, or CAS Numbers to see suggestions.



[All Photos](#) (3)

Documents

[↓ SDS](#)

[🔍 COO/COA](#)

[📄 Specification Sheet](#)

[More Documents](#) »

B3545 ▶ **Sigma-Aldrich®**

Sodium tetraborate decahydrate

★★★★★ (0)

BioXtra, ≥99.5%

Synonym(s):

Borax decahydrate, Sodium borate decahydrate

Linear Formula:

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$

CAS Number: **1303-96-4**

Molecular Weight: 381.37

EC Number: **215-540-4**

MDL number: **MFCD00149193**

PubChem Substance ID: **24891726**

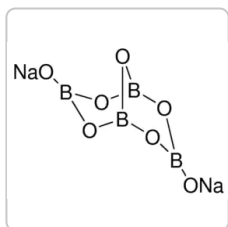
NACRES: NA.21

SKU	Pack Size	Availability	Price	Quantity	
B3545-500G	500 G	✓ Available to ship on October 10, 2022 Details...	€134.00	1	i
B3545-1KG	1 KG	✓ Only 2 left in stock (more on the way) Details...	€245.00	1	i

[Request a Bulk Order](#)

[Add to Cart](#)

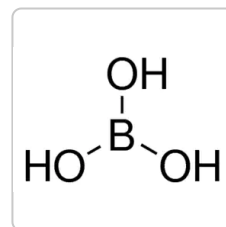
RECOMMENDED PRODUCTS



Sigma-Aldrich

221732**Sodium tetraborate**

99%

[View Price and Availability](#)

Sigma-Aldrich

B6768**Boric acid**

BioReagent, for molecular biology, suitable for cell culture, suitable for plant cell culture, ≥99.5%

[View Price and Availability](#)

PROPERTIES

product line	BioXtra
Quality Level	200
assay	≥99.5%
form	powder
impurities	≤0.001% Phosphorus (P) ≤0.1% Insoluble matter
pH	9.2 (10 g/L)
solubility	H ₂ O: 0.1 M, clear, colorless

density 1.73 g/mL at 25 °C (lit.)

anion traces chloride (Cl⁻): ≤0.05%
sulfate (SO₄²⁻): ≤0.05%

cation traces Al: ≤0.0005%
Ca: ≤0.01%
Cu: ≤0.0005%
Fe: ≤0.001%
K: ≤0.005%
Mg: ≤0.0005%
NH₄⁺: ≤0.05%
Pb: ≤0.001%
Zn: ≤0.0005%

SMILES string O.O.O.O.O.O.O.O.O.[Na+].[Na+].[O-]B1Ob2ob([O-])ob(O1)o2

InChI 1S/B4O7.2Na.10H2O/c5-1-7-3-9-2(6)10-4(8-1)11-3;;;;;;;;;;/h;;;10*1H2/q-2;2*+1;;;;;;;;;;

InChI key CDMADVZSLOHIFP-UHFFFAOYSA-N

Looking for similar products? Visit [Product Comparison Guide](#)

Related Categories

[Biological Buffers](#)

DESCRIPTION

Application

Sodium tetraborate decahydrate has been used:

- as a buffer component in biotinylation assay.
- in preparation of methylene blue solution for histological staining.
- as a component of trace metal solution for medium supplementation.

Packaging

500 g in poly bottle

1 kg in poly bottle

Biochem/physiol Actions

Sodium tetraborate decahydrate also called borax. Guar gum based gels crosslinked by borax are effective for wastewater treatment. Borax is used in the preparation of detergents and cosmetics. Borax elicits toxicity in the brain especially in aquatic organisms resulting in edema and congestion.

Legal Information

SAFETY INFORMATION

Pictograms

Signal Word

Hazard Statements

Precautionary Statements

**GHS07,GHS08****Danger****H319 - H360FD****P202 - P264 - P280 - P305 + P351 +
P338 - P308 + P313 - P337 + P313****Hazard Classifications**

Eye Irrit. 2 - Repr. 1B

Storage Class Code6.1D - Non-combustible, acute
toxic Cat.3 / toxic hazardous
materials or hazardous
materials causing chronic
effects**WGK**

WGK 1

Flash Point(F)

Not applicable

Flash Point(C)

Not applicable

**Personal Protective
Equipment**dust mask type N95 (US),
Eyeshields, Gloves

REGULATORY LISTINGS

Regulatory Listings are mainly provided for chemical products. Only limited information can be provided here for non-chemical products. No entry means none of the components are listed. It is the user's obligation to ensure the safe and legal use of the product.

EU REACH SVHC Candidate ListCAS No. **1303-96-4****EU REACH Annex XVII (Restriction List)**CAS No. **1303-96-4**

DOCUMENTATION

Certificate of Analysis

Enter Lot Number to search for Certificate of Analysis (COA).

Lot Number

e.g. 023J5431

How to enter Lot Number (COA)

Search

Certificate of Origin

Enter Lot Number to search for Certificate of Origin (COO).

Lot Number

e.g. 023J5431

How to enter Lot Number (COO)

Search

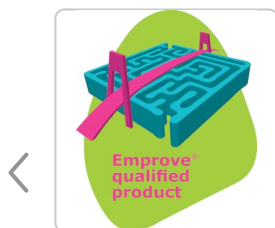
More Documents

[Spectra - ATR-IR](#)

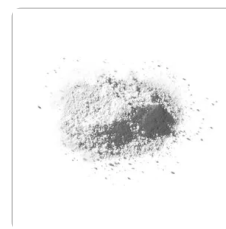
[Structure Search](#)

[SDS](#)

CUSTOMERS ALSO VIEWED



SAFC

1.06303**di-Sodium tetraborate decahydrate**EMPROVE[®] ESSENTIAL, Ph. Eur., BP, JP, NF[View Price and Availability](#)

Supelco

1.06306**di-Sodium tetraborate**

anhydrous for analysis

[View Price and Availability](#)

PEER REVIEWED PAPERS

Differentiation of adipose stem cells seeded towards annulus fibrosus cells on a designed poly (trimethylene carbonate) scaffold prepared by stereolithography

Blanquer SBG, et al.*Journal of Tissue Engineering and Regenerative Medicine, 11(10), 2752-2762 (2017)*

Borax cross-linked guar gum hydrogels as potential adsorbents for water purification

Thombare N, et al.*Carbohydrate Polymers, 168, 274-281 (2017)*

Growth and properties of sodium tetraborate decahydrate single crystals

Goel N, et al.*Materials Research Bulletin, 48(4), 1632-1636 (2013)*

Antimicrobial agents, triclosan, chloroxylenol, methylisothiazolinone and borax, used in cleaning had genotoxic and histopathologic effects on rainbow trout

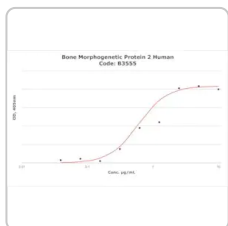
Capkin E, et al.
Chemosphere, 182, 720-729 (2017)

Preparation of glycoconjugates from unprotected carbohydrates for protein-binding studies

Hjuler CT, et al.
Nature Protocols, 12(11), 2411-2411 (2017)

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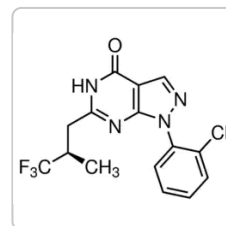
Sigma-Aldrich

B3555

Bone Morphogenetic Protein 2 human

≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

[View Price and Availability](#)



Sigma-Aldrich

B3561

BAY 73-6691

≥98% (HPLC), powder

[View Price and Availability](#)

Reviews



[Be the first to review this product](#)

Questions

Be the first to ask a question

TECHNICAL SERVICE

Our team of scientists has experience in all areas of research including Life Science, Material Science, Chemical Synthesis, Chromatography, Analytical and many others.

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