

Specification Sheet

Chemical Name		CAS No.
3-(tert-Butyldimethylsilyloxy)benzeneboronic Acid		261621-12-9
Testing Parameters	Testing Method	Specification
Appearance	Visual Inspection	Off-white powder
Purity (wt%)	GC	≥99.0



Safety Data Sheet (SDS)

3-(tert-Butyldimethylsilyloxy)phenylboronic acid (TBPB)

CAS Number: 261621-12-9

SECTION 1: IDENTIFICATION

- **Product Name:** 3-(tert-Butyldimethylsilyloxy)phenylboronic acid
- **Recommended Use:** Laboratory chemical, synthesis of substances
- **Supplier:** Automate Solutions, Inc.
- **Emergency Contact:** 510-982-6488

SECTION 2: HAZARD IDENTIFICATION

- **GHS Classification:**
Not a hazardous substance or mixture under GHS classification.
- **Label Elements:**
No labeling required.
- **Hazards Not Otherwise Classified (HNOC):**
None identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
3-(tert-Butyldimethylsilyloxy)phenylboronic acid	261621-12-9	≤100%

- **Molecular Formula:** $C_{12}H_{21}BO_3Si$
- **Molecular Weight:** 252.19 g/mol

SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move to fresh air. If not breathing, give artificial respiration.
- **Skin Contact:** Wash with soap and plenty of water.
- **Eye Contact:** Rinse cautiously with water.
- **Ingestion:** Rinse mouth. Do not give anything by mouth to an unconscious person.
- **Symptoms:** No specific effects reported.



- **Medical Attention:** No special treatment known.

SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, CO₂
- **Hazardous Combustion Products:** Carbon oxides, sulfur oxides, hydrogen iodide, boron oxides
- **Protective Equipment:** Wear self-contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid dust formation. Ensure proper ventilation.
- **Environmental Precautions:** Prevent entry into drains.
- **Cleanup Methods:** Sweep and shovel material. Keep in closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

- **Handling:** Use proper ventilation. Avoid dust generation. General hygiene practices.
- **Storage:** Store in a dry, well-ventilated place under inert gas. Moisture-sensitive.
- **Storage Class:** 13 – Non-combustible solids

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Control Parameters:** No exposure limits available.

Personal Protective Equipment:

- **Eyes/Face:** Safety goggles (NIOSH/EN 166)
- **Hands:** Protective gloves
- **Clothing:** Lab coat or other protective clothing appropriate to risk
- **Respiratory:** N95 (US) or P1 (EU) dust mask if nuisance levels of dust present

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Solid
- **Melting Point:** 86–91 °C



- **Boiling Point, Flash Point, Flammability:** No data available
- **Water Solubility:** No data available
- **Other Properties:** No additional data available

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage
- **Conditions to Avoid:** Moisture
- **Incompatible Materials:** Strong oxidizers
- **Hazardous Decomposition Products:** Refer to Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Toxicity (oral, inhalation, dermal):** No data available
- **Skin/Eye Irritation:** No data available
- **Carcinogenicity:** Not listed by IARC, ACGIH, NTP, OSHA
- **Mutagenicity / Reproductive Effects:** No data available
- **Additional Info:** Not thoroughly investigated

SECTION 12: ECOLOGICAL INFORMATION

- **Toxicity, Persistence, Bioaccumulation, Mobility:** No data available
- **PBT/vPvB:** Not assessed
- **Other Adverse Effects:** No data available

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Offer surplus to licensed waste disposal company
- **Contaminated Packaging:** Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

- **DOT / IMDG / IATA:** Not dangerous goods

SECTION 15: REGULATORY INFORMATION

- **SARA 302/313/311/312:** Not subject



- **State Right to Know (PA/NJ):** Listed
- **California Prop 65:** Not listed

SECTION 16: OTHER INFORMATION

- **Revision Date:** May 7, 2022
- **Disclaimer:** The information is based on present knowledge and intended as a guide to safe handling. Automat Solutions, Inc. makes no warranty and assumes no liability for damage resulting from use.

