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Produktinformation

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- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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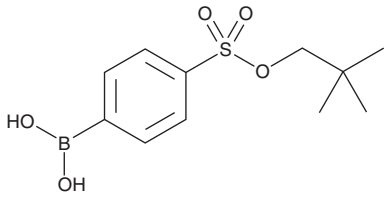
PRODUCT INFORMATION

4-(Neopentyloxysulfonyl)phenylboronic Acid

Item No. 21493

CAS Registry No.:	957060-74-1
Formal Name:	4-borono-benzenesulfonic acid, 1-(2,2-dimethylpropyl) ester
MF:	$C_{11}H_{17}BO_5S$
FW:	272.1
Purity:	≥95%
UV/Vis.:	λ_{max}: 229, 272 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

4-(Neopentyloxysulfonyl)phenylboronic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 4-(neopentyloxysulfonyl)phenylboronic acid in the solvent of choice. 4-(Neopentyloxysulfonyl)phenylboronic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 4-(neopentyloxysulfonyl) phenylboronic acid in these solvents is approximately 30 mg/ml.

4-(Neopentyloxysulfonyl)phenylboronic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 4-(neopentyloxysulfonyl)phenylboronic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 4-(Neopentyloxysulfonyl)phenylboronic acid has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

4-(Neopentyloxysulfonyl)phenylboronic acid is a monosulfonic acid that has been used as a building block in the synthesis of water-soluble dibenzothiophene (DBT) and dibenzothiophene S-oxide (DBTO) derivatives.[1]

Reference

1. Omlid, S.M., Isor, A., Sulkowski, K.L., *et al.* Synthesis of aromatic disulfonic acids for water-soluble dibenzothiophene derivatives. *Synthesis* **50(12)**, 2359-2366 (2018).

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