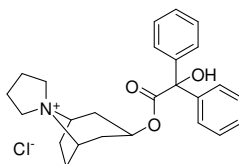




## Certificate of Analysis

**Axon Catalogue ID:** 3648 **Batch Number:** 1  
**Product Name:** Trospium chloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 3-(2-Hydroxy-2-diphenylacetoxy)spiro[bicyclo[3.2.1]octane-8,1'-pyrrolidin]-1'-ium chloride

**Structure:**



**Amount:**

**CAS number(s):** 47608-32-2 (parent), 10405-02-4 (chloride (1:1))  
**Molecular Formula:** C<sub>25</sub>H<sub>30</sub>ClNO<sub>3</sub> **Molecular Weight:** 427.96  
**Batch Molecular Formula:** C<sub>25</sub>H<sub>30</sub>ClNO<sub>3</sub>·0.25H<sub>2</sub>O **Batch Molecular Weight:** 432.47  
**Appearance:** White solid **Observed mp:** >265 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.23 DCM/MeOH (9:1)  
**Chemical Purity:** 100%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 69.43, H 7.11, N 3.24; Found: C 69.67, H 7.00, N 3.23  
**Storage Conditions:** Desiccate at -20 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	43.2	>100 mM	
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)			Not Tested
DMSO	11.9	27.5	* Warming (40°C)
EtOH	8.4	19.4	* Warming (40°C)

**Remarks:** \* Warming (40°C) enhanced solubility.

**QC Date:** 29-7-2022

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**