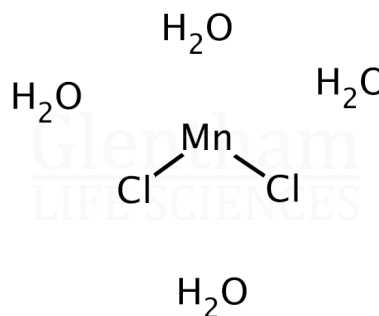


Certificate of Analysis

Product Name	Manganese(II) chloride tetrahydrate
Glenthams Code	GK2508
CAS Number	13446-34-9
EINECS	231-869-6
Numéro MDL	MFCD00149792
PubChem SID	310276013
Batch Number	319HYL

Molecular Weight	197.90
Molecular Formula	$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$
Storage Temp.	+20°C



Property	Specification	Batch 319HYL
Physical Description	Pink crystals or crystalline powder	Pink crystalline powder
Solubility (5% in water)	Clear, pale pink solution	Conforms
Iron (Fe)	$\leq 100\text{ppm}$	$\leq 1\text{ppm}$
Zinc (Zn)	$\leq 100\text{ppm}$	2.5ppm
Sodium (Na)	$\leq 100\text{ppm}$	$\leq 1\text{ppm}$
Sulphate (SO ₄)	$\leq 0.2\%$	Conforms
Assay	$\geq 98.0\%$ ($\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$)	99.1%

Specification Version	v1.0
Manufacture Date	2024-04-10
Re-Test Date	2036-04-05

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glenthams Life Sciences Ltd, 2025