No: SPEC-01-009\_04

**Precious Metals** 

Valid from: 03.11.2023 Released Chemical Products

## **Specification**

IUPAC Name: Dihydrogen Hexachloroplatinate(IV) Solution

Heraeus Material / Type: CPA sol. T25 LSTDP

**Description / Formula:** H<sub>2</sub>[PtCl<sub>6</sub>]

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Parameter	Unit	Specification	Test Method
Precious metal			
	0.4		
Platinum content*	%	24.9 – 25.1	calculated and adjusted
Platinum content in bulk material	%		00079/xx Pt-content gravimetric
Chemical and physical properties related to sample			
Free acid (HCI) content*	%	≤ 1.0	calculated
Free acid (HCI) content in bulk material	%		00085/xx Acid- base- titration
Sulfate (SO <sub>4</sub> ) content	ppm	≤ 120	
Nitrate (NO <sub>3</sub> ) content	ppm	≤ 2000	
Insoluble in water content	ppm	≤ 25	
Impurities relating to precious metal			00195/xx ICP-OES
Ir (Iridium)*	ppm	≤ 200	
Pd (Palladium)*	ppm	≤ 25	
Rh (Rhodium)*	ppm	≤ 200	
Ru (Ruthenium)*	ppm	≤ 50	
Au (Gold)*	ppm	≤ 25	
Ag (Silver)*	ppm	≤ 25	
As (Arsenic)*	ppm	≤ 25	
Ba (Barium)*	ppm	≤ 50	

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Ca (Calcium)*	ppm	≤ 250	
Cu (Copper)*	ppm	<i>⊆</i> 250	
Fe (Iron)*	ppm	≤ 50	
K (Potassium)*	ppm	≤ 250	00086/xx AAS
Mg (Magnesium)*	ppm	≤ 250	00000/XX /4/40
Na (Sodium)*	ppm	≤ 250	00086/xx AAS
Ni (Nickel)*	ppm	<i>=</i> 250 ≤ 25	
Os (Osmium)*	ppm	= ±0 ≤ 50	
Pb (Lead)*	ppm	= 35 ≤ 25	
Si (Silicon)*	ppm	≤ 100	
V (Vanadium)*	ppm	≤ 25	
, ,			

## Value determination

All values determined in accordance with 08170/xx

## **Information:**

Appearance: solution

Color: orange

Sulfate and Nitrate are not analyzed since no Sulfate or Nitrate containing compounds are used in the process.

Other relevant document(s):

xx = current revision

## Inspection Certificate (IC)

Heraeus Precious Metals GmbH & Co.KG will issue an Inspection Certificate according to DIN EN 10204-3.1 for each delivered batch. Parameters which are marked with [\*] will be given in the Inspection Certificate.

This document has been generated automatically and is valid without signature.

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