

Specification

IUPAC Name: Dihydrogen Hexachloroplatinate(IV) Solution

Heraeus Material / Type: CPA sol. L

Description / Formula: $\text{H}_2[\text{PtCl}_6]$

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Parameter	Unit	Specification	Test Method
<u>Precious metal</u>			
Platinum content*	%	30.0 – 35.0	00079/xx Pt-content gravimetric
<u>Chemical and physical properties</u> related to sample			
Free acid (HCl) content*	%	≤ 1.0	00085/xx Acid- base- titration
Sulfate (SO ₄) content	ppm	≤ 120	
Nitrate (NO ₃) content	ppm	≤ 2000	
Insoluble in water content	ppm	≤ 25	00088/xx Filtation
<u>Impurities</u> 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	
Ca (Calcium)*	ppm	≤ 250	

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Cu (Copper)*	ppm	≤ 25	
Fe (Iron)*	ppm	≤ 50	
Hg (Mercury)*	ppm	≤ 10	
K (Potassium)*	ppm	≤ 250	00086/xx AAS
Mg (Magnesium)*	ppm	≤ 250	
Na (Sodium)*	ppm	≤ 250	00086/xx AAS
Ni (Nickel)*	ppm	≤ 25	
Os (Osmium)*	ppm	≤ 50	
Pb (Lead)*	ppm	≤ 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.

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