

## Specification

**IUPAC Name:** Dihydrogen Hexachloroiridate(IV) Hydrate

**Heraeus Material / Type:** Hexachloroiridium(IV) Acid HSTDP

**Description / Formula:**  $\text{H}_2[\text{IrCl}_6] \cdot n \text{H}_2\text{O}$

Heraeus Precious Metals GmbH & Co. KG · Heraeusstrasse 12-14 · 63450 Hanau, Germany

Contact Mail: CS-CP-HPMG@heraeus.com · Phone.: +49(0)6181/35-4854

Parameter	Unit	Specification	Test Method
<u>Precious metal</u>			
Iridium content*	%	40 - 45	00083/xx Ir-content gravimetric
<u>Chemical and physical properties</u> related to sample			
$\text{NO}_3^-$ (Nitrate)	%	$\leq 500$	
$\text{SO}_4^{2-}$ (Sulphate)	%	$\leq 120$	
<u>Impurities</u> relating to precious metal			00195/xx ICP-OES
Pd (Palladium)*	ppm	$\leq 50$	
Pt (Platinum)*	ppm	$\leq 500$	
Rh (Rhodium)*	ppm	$\leq 500$	
Ru (Ruthenium)*	ppm	$\leq 500$	
Ag (Silver)*	ppm	$\leq 50$	
Au (Gold)*	ppm	$\leq 50$	
Al (Aluminium)*	ppm	$\leq 50$	
As (Arsenic)*	ppm	$\leq 25$	
Ca (Calcium)*	ppm	$\leq 50$	
Cu (Copper)*	ppm	$\leq 25$	
Fe (Iron)*	ppm	$\leq 100$	
K (Potassium)*	ppm	$\leq 500$	00086/xx AAS

Mg (Magnesium)*	ppm	≤ 50	
Mo (Molybdenum)*	ppm	≤ 50	
Na (Sodium)*	ppm	≤ 500	00086/xx AAS
Ni (Nickel)*	ppm	≤ 50	
Os (Osmium) *	ppm	≤ 100	
Pb (Lead)*	ppm	≤ 25	
Si (Silicon)*	ppm	≤ 100	
W (Tungsten) *	ppm	≤ 50	

**Value determination**

All values determined in accordance with 08170/xx

**Information:**

Color: black

**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.

*This specification and all information contained therein represent confidential information of Heraeus Precious Metals GmbH & Co.KG which must be kept strictly confidential by the recipient and may not be passed on to third parties. The properties stated above have been obtained under controlled test methods. Under other test conditions or productive use, the measured results may vary, in particular depending on the specific ambient conditions. In particular, the results from Heraeus Precious Metals GmbH & Co.KG inspection certificate do not release the customer from verifying itself and on its own responsibility whether the end product specified by Heraeus Precious Metals GmbH & Co.KG is suited for the intended purpose of use of the customer.*