

## Specification

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

**Heraeus Material / Type:** Hexachloroiridium(IV) Acid sol. LSTD P

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

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Parameter	Unit	Specification	Test Method
<u>Precious metal</u>			
Iridium content*	%	20 - 25	calculated and adjusted
Iridium content in bulk material			00083/xx Ir- content gravimetric
<u>Chemical and physical properties</u> related to sample			
$\text{SO}_4^{2-}$ (Sulphate)	ppm	$\leq 120$	
$\text{NO}_3^-$ (Nitrate)	ppm	$\leq 500$	
Density*	$\text{g/cm}^3$	informative	00107/xx Density 20°C
<u>Impurities</u> relating to precious metal			
Pd (Palladium)*	ppm	$\leq 50$	00195/xx ICP-OES
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	≤ 100	
K (Potassium)*	ppm	≤ 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:**

Appearance: solution

Color: brown

**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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*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.*