



# Cesium Hydroxide Monohydrate technical

<b>Product number :</b>	425006
<b>CAS-No. :</b>	[35103-79-8]
<b>Appearance :</b>	colourless, hygroscopic powder
<b>Formula :</b>	CsOH·H <sub>2</sub> O
<b>Formula weight :</b>	167.93
<b>Cesium content :</b>	79.14 % (theoretical)
<b>Specific gravity :</b>	3.5 g/cm <sup>3</sup>
<b>Bulk density :</b>	2.2 kg/l
<b>Melting point :</b>	205 - 208°C
<b>Solubility :</b>	approx. 860 g CsOH·H <sub>2</sub> O in 100 g H <sub>2</sub> O at 15°C

## Chemical analysis

Li	max.	5 ppm
Na	max.	100 ppm
K	max.	200 ppm
Rb	max.	200 ppm
Ca	max.	5 ppm
Ba	max.	30 ppm
Sr	max.	5 ppm
Al	max.	10 ppm
Fe	max.	10 ppm
P <sub>2</sub> O <sub>5</sub>	max.	15 ppm
SO <sub>4</sub>	max.	50 ppm
Cl	max.	100 ppm
NO <sub>3</sub>	max.	25 ppm
SiO <sub>2</sub>	max.	40 ppm

Deliveries are accompanied by a lot specific certificate of analysis.  
If any of these values is critical to your application, please let us know.

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<b>Applications</b>	Cesium hydroxide monohydrate acts as base in organic synthesis.
<b>Safety and handling</b>	Contact to skin and eyes or ingestion will cause serious caustic burns, as cesium hydroxide is an extremely strong base. Incompatible materials: acids, carbon dioxide (e.g. from air)
<b>Packaging</b>	PE bottles or bags in drums (fibre drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). Alternative packing on request.
<b>Transport classification</b>	Please refer to the safety datasheet of this product.
<b>Cesium product range</b>	acetate aluminium fluoride bicarbonate bromide carbonate chloride fluoride hydrogen carbonate hydroxide monohydrate iodide metal nitrate sulfate <i>available in various grades, other products on request</i>