



# Cesium Sulfate highest purity

<b>Product number :</b>	424001
<b>CAS-No. :</b>	[10294-54-9]
<b>Appearance :</b>	colourless, crystalline and hygroscopic powder
<b>Formula :</b>	Cs <sub>2</sub> SO <sub>4</sub>
<b>Formula weight :</b>	361.87
<b>Cesium content :</b>	73.46 % (theoretical)
<b>Specific gravity :</b>	4.243 g/cm <sup>3</sup>
<b>Bulk density :</b>	approx. 2.2 kg/l
<b>Melting point :</b>	1010°C
<b>Solubility :</b>	179 g in 100 g H <sub>2</sub> O at 20°C

## Chemical analysis

Li	max.	1 ppm
Na	max.	2 ppm
K	max.	6 ppm
Rb	max.	10 ppm
Ca	max.	1 ppm
Mg	max.	1 ppm
Sr	max.	2 ppm
Ba	max.	10 ppm
Al	max.	1 ppm
Fe	max.	0.5 ppm
Cr	max.	0.5 ppm
Mn	max.	2 ppm
Cl	max.	10 ppm

Extinction of 50 % aqueous solution, 1 cm layer  
at 260 nm (absorption by proteins): max. 0.02  
at 280 nm (absorption by nucleic acids): max. 0.02

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>	This product is used for density gradient centrifugation and crystal growing purposes.
<b>Safety and handling</b>	Handling in moist air should be avoided. Because of its hygroscopicity cesium sulfate should be stored in tightly closed containers.
<b>Packaging</b>	Polyethylene bottles or bags with aluminium barrier in drums (fibre drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). The aluminium barrier prevents diffusion of moisture into the product. Alternative packing on request. Smaller units available at surcharge.
<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, aqueous solution or monohydrate iodide metal nitrate sulfate  <i>available in various grades, other products on request</i>