

Method for extracting gallium from aluminum-containing solutions includes preparing initial solution for sorption by lime treatment and filtration, sorption extraction of gallium on ion-exchange resin, and obtaining crude metallic gallium by cementation on aluminum gallate. Purification of aluminum-containing solution is carried out by treatment with lime slurry at a temperature of 80-90 °C and a mass ratio of Al_2O_3 :CaO=1:(2.0–2.5). Solution is left to settle for 2-3 hours. Solution is cooled and held for 3-4 hours, wherein the degree of gallium extraction from working solution is 81-82%. After refining crude gallium, the quality of technical gallium is at least 4N.