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(54) Title: MANUFACTURING OF DIMERIC CONTRAST AGENTS

(57) Abstract: The invention relates to a process for the preparation of dimeric contrast agents for use in Magnetic resonance Imaging (MRI), in particular $[\mu\text{-}[1\text{-}[\text{bis}[2\text{-(hydroxy-}\kappa\text{O)}\text{-}3\text{-}[4,7,10\text{-tris}[(\text{carboxy-}\kappa\text{O})\text{methyl}]\text{-}1,4,7,10\text{-tetraazacyclododec-}1\text{-yl-}\kappa\text{N}^1, \kappa\text{N}^4, \kappa\text{N}^7, \kappa\text{N}^{10}]\text{propyl}]\text{amino}]\text{-}1\text{-deoxy-D-glucitolate(6-)}]]\text{di-gadolinium complex}$, which includes preparation steps carried out one-pot (without isolation of the obtained intermediate) and precipitation of at least part of free gadolinium metal ions in excess.

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