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SUPPORTING INFORMATION

ZIRCONIUM (IV) TETRAMER/OCTAMER HYDROLYSIS EQUILIBRIUM IN AQUEOUS HYDROCHLORIC ACID SOLUTION

A. Singhal, L. M. Toth,* J. S. Lin,† and K. Affholter
Chemical Technology Division, ‡Oak Ridge National Laboratory, Oak Ridge, TN 37831
†Solid State Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831

Calculated values of the R_g and the number of electrons in the tetramer and the octamer

Species	Number of electrons	R_g (Å) with background electron correction	Number of excess electrons
$[Zr_4(OH)_8(H_2O)_{16}Cl_6]^{2+}$	454	3.7	237
$Zr_8(OH)_{20}(H_2O)_{24}Cl_{12}$ (sheet)	876	5.4	464
$Zr_8(OH)_{20}(H_2O)_{24}Cl_{12}$ (stacked)	876	5.0	464