

Structural and Dynamic Approaches of Molten Salts by High Temperature Spectroscopies

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The combination of ²⁷Al NMR experiments and Molecular Dynamics simulation confirms the existence of penta-coordinated Aluminium in several molten aluminium oxides. In the case of fluoroaluminate molten salts, NMR and Raman spectroscopies provide complementary approaches leading to a structural description in term of AlF_4^- , AlF_5^{2-} and AlF_6^{3-} species.

Key words: ²⁷Al High Temperature NMR; Oxides; NaF-AlF₃.

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