

Comparison of the Corrosion Inhibition Effect of *Portulaca oleracea* Extracts Prepared Using Ethanol and Water

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Editor's note: Corrosion inhibition through sustainable coatings based on plant extracts has garnered significant research interest in recent years, paving the way for the development of next-generation corrosion protection systems. In this study, Shiri developed a new class of sustainable coating for mild steel using extracts from *Portulaca oleracea*, prepared with two solvents: ethanol and water. The results indicate that the choice of solvent significantly influences the corrosion inhibition efficiency of the resulting inhibitor, highlighting more effective methods for creating sustainable corrosion protection systems.

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