

Evaluation of *Phytolacca americana* L. extract as green corrosion inhibitor for mild steel: a study of the solution phase

Milad Sheydaei *

Department of Chemical and Polymer Engineering, University of Garmsar, Garmsar, Iran

Editor's note: Green corrosion inhibitors are gaining popularity, particularly those derived from plants, due to their non-toxic nature, affordability, and accessibility. Sheydaei conducted a study on the extract of *Phytolacca americana* L. (also known as American pokeweed), assessing its effectiveness in preventing mild steel corrosion. The findings indicated that the plant extract successfully inhibited corrosion, as it contains compounds such as betacyanins, flavonoids, and polyphenols.

doi: 10.22034/jams.2025.210153

How to cite: M. Sheydaei, *Journal of Applied Material Science*, 2025, 1, 210153.



JOURNAL OF
APPLIED
MATERIAL
SCIENCE

jams.hsu.ac.ir