

Erratum

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Investigation on Two Compounds of O,O'-dithiophosphate Derivatives as Corrosion Inhibitors for Q235 Steel in Hydrochloric Acid Solution

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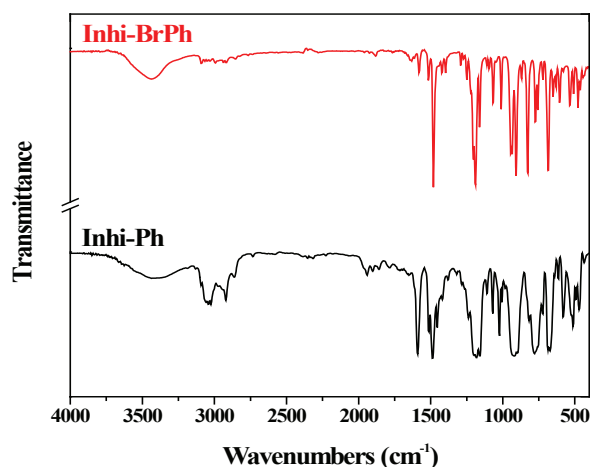


Figure 1: Infrared spectra of Inhi-Ph and Inhi-BrPh.

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The original version of the article was published in Open Chem. 2017, 15 (1) pp. 263-271. Unfortunately, the original version of this article contains mistakes in the caption of the y-axis of Figure 1 and 7. Additionally, the actual units of the charge transfer resistance should be R_{ct} ($\Omega \text{ cm}^2$), not R_p ($\Omega \text{ cm}^2$). Corrected versions of the Figures and Table are presented below.

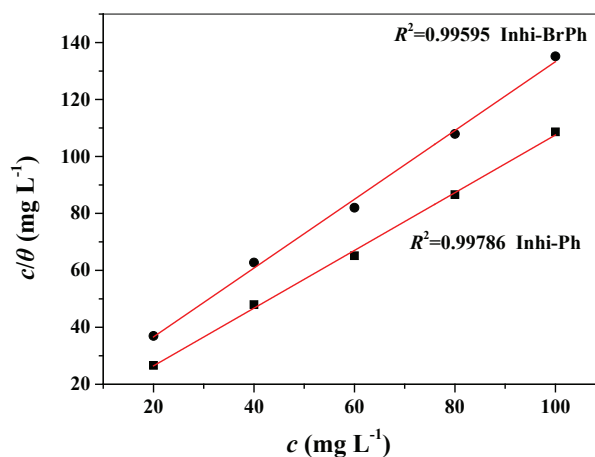


Figure 7: Langmuir adsorption isotherm for Inhi-Ph and Inhi-BrPh on Q235 steel in 1.0 M HCl at 30°C.

Table 5: The electrochemical parameters of impedance and the corresponding inhibition efficiency of Q235 steel in 1.0 M HCl with various concentration of Inhi-Ph and Inhi-BrPh at 30°C.

Inhibitor	C (mg L ⁻¹)	R_{ct} ($\Omega \text{ cm}^2$)	C_{dl} ($\mu\text{F cm}^2$)	η_e (%)
Blank solution	0	25.44	78.36	—
Inhi-Ph	20	86.53	20.43	70.60
	40	92.89	19.48	72.61
	60	139.7	10.14	81.79
Inhi-BrPh	20	57.75	60.02	55.95
	40	76.02	38.59	66.54
	60	96.77	25.37	73.71