



Erratum

Erratum to “Reactivity of neonicotinoid pesticides with singlet oxygen” [Catal. Today 151 (2010) 137–142]

M.L. Dell’Arciprete^a, L. Santos-Juanes^b, A. Arques^{b,*}, R.F. Vercher^b, A.M. Amat^b, J.P. Furlong^c,
D.O. Mártire^a, M.C. Gonzalez^{a,*}

^a Instituto de Investigaciones Físicoquímicas Teóricas y Aplicadas (INIFTA), Facultad de Ciencias Exactas, Universidad Nacional de La Plata, Casilla de Correo 16, Sucursal 4, 1900 La Plata, Argentina

^b Grupo de Procesos de Oxidación Avanzada. Departamento de Ingeniería Textil y Papelera, Universidad Politécnica de Valencia, Campus de Alcoy. Plaza Ferrándiz y Carbonell s/n, 03801 Alcoy, Spain

^c LADECOR, Departamento de Química, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, Casilla de Correo 16, Sucursal 4, 1900 La Plata, Argentina

The text on lines 1–11 of page 142

“Since the one-electron reduction potential for RB is $E^0(\text{RB}/\text{RB}^{\bullet-}) = -0.54 \text{ V}$ vs. NHE and that its triplet state energy is $168.56 \text{ kJ mol}^{-1}$ [11], then any ^3RB quencher with a reduction potential lower than 1.23 V vs. NHE may undergo an electron transfer from the quencher to ^3RB . The reported reduction potentials for IMD and ACT are -0.96 and -1.26 V , respectively [21,22], and therefore $\Delta_{\text{ET}}G^0 - w \cong -213 \text{ kJ mol}^{-1}$ is obtained for IMD and -242 kJ mol^{-1} for ACT. Due to the nature of the charges in the pair $\text{I}^{\bullet+} \text{RB}^{\bullet-}$, the term w contributes to the exergonicity of $\Delta_{\text{ET}}G^0$, which shows that the reaction of the insecticides with ^3RB is thermodynamically allowed.”

should be read

“Since the one-electron reduction potential for RB is $E^0(\text{RB}/\text{RB}^{\bullet-}) = -0.54 \text{ V}$ vs. NHE and that its triplet state energy is $168.56 \text{ kJ mol}^{-1}$ [11], then any ^3RB quencher with a reduction potential lower than 1.23 V vs. NHE may undergo an electron transfer from the quencher to ^3RB . Due to the nature of the charges in the pair $\text{I}^{\bullet+} \text{RB}^{\bullet-}$, the term w contributes to the exergonicity of $\Delta_{\text{ET}}G^0$. Therefore, the reduction potential of the $\text{I}^{\bullet+}/\text{I}$ pairs for the three insecticides lie below 1.2 V .”

We have mistakenly taken the values -0.96 and -1.26 V from Refs. [21,22] as the one-electron reduction potential for the couples $\text{I}^{\bullet+}/\text{I}$, when in reality they were the reduction potentials for the couples I/I^- . The mistake does not modify any of the conclusions on the paper. It is only that the highlighted original sentence could be misleading to someone searching for those values.

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* Corresponding authors.

E-mail addresses: aarques@txp.upv.es (A. Arques), gonzalez@inifta.unlp.edu.ar (M.C. Gonzalez).