

Erratum

Erratum to: Catalytic destruction of halogenated air toxins and the effect of admixture with VOCs¹ (Catalysis Today, 30 (1996) 99–105)

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The title of this paper should read: Catalytic destruction of halogenated air toxics and the effect of admixture with VOCs.

The captions of Figs. 3–6 should read:

Fig. 3. (A) The light-off curves of trichloroethylene (TCE) at different TCE/C₂H₄ concentration ratios. (B) Light-off curves of ethylene (2000 ppm) at different trichloroethylene (TCE) concentrations (as indicated in the figure).

Fig. 4. The light-off curves of trichloroethylene (TCE, in 200 ppm) in admixtures with

various VOCs (species and corresponding concentrations are indicated in the figure).

Fig. 5. The light-off curves of toluene and methyl bromide in their admixture. In the absence of methyl bromide, toluene oxidation is complete below 200°C.

Fig. 6. Recovery of toluene oxidation activity by removal of bromide. 100 ppm toluene in air.

Some values in Table 2 should be bold highlighted:

Table 2.

Free energy and equilibrium constant of bond dissociation for C₁ chlorocarbons

<i>T</i> (°C)	CCl ₄ → CCl ₃ + Cl		CHCl ₃ → CHCl ₂ + Cl		CH ₂ Cl ₂ → CH ₂ Cl + Cl		CH ₃ Cl → CH ₃ + Cl	
	Δ <i>G</i>	<i>K</i>	Δ <i>G</i>	<i>K</i>	Δ <i>G</i>	<i>K</i>	Δ <i>G</i>	<i>K</i>
0	62.1	2.1E – 50	61.7	4.3E – 50	70.7	2.5E – 57	75.6	3.0E – 61
100	58.5	5.8E – 35	58.2	8.6E – 35	67.4	3.3E – 40	72.6	2.9E – 43
200	54.8	4.8E – 26	54.6	6.2E – 26	64.0	2.7E – 30	69.5	8.0E – 33
250	53.0	7.3E – 23	52.8	9.1E – 23	62.3	9.7E – 27	67.9	4.3E – 29
300	51.2	3.1E – 20	50.9	3.8E – 20	60.5	8.3E – 24	66.3	5.3E – 26
350	49.4	4.9E – 18	49.1	5.9E – 18	58.8	2.4E – 21	64.6	2.1E – 23
400	47.5	3.7E – 16	47.3	4.4E – 16	57.0	3.1E – 19	63.0	3.5E – 21
500	43.9	3.8E – 13	43.6	4.7E – 13	53.5	7.6E – 16	59.7	1.3E – 17
600	40.3	8.2E – 11	40.0	1.0E – 10	50.0	3.2E – 13	56.4	7.5E – 15

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