

| No. | Compound name | Reaction equation | pH | Rate constant (L mol ⁻¹ s ⁻¹) | Comments | Reference |
|-----|-----------------|---|---------|---|--|-----------|
| 465 | Vanadyl(IV) ion | e _{aq} ⁻ + VO ²⁺ → VO ⁺ | 3.8-4.6 | 8 × 10 ¹⁰ | p.r.; D.k. in soln. contg. (2-5) × 10 ⁻⁴ mol L ⁻¹ VO(ClO ₄) ₂ and 0.01-0.05 mol L ⁻¹ EtOH or 0.12 mol L ⁻¹ tert-BuOH; <i>pK_a</i> = 5.79, estd. <i>k</i> = 6 × 10 ¹⁰ for e _{aq} ⁻ + VOOH ⁺ ; cor. for charge on cation. | 86A152 |