

Table 1. Redox potentials of sulfur compounds

Redox couple	E_0' (mV)
$\text{SO}_4^{2-}/\text{SO}_3^-$	-515
$\text{S}_2\text{O}_3^{2-}/\text{HS}^- + \text{HSO}_3^-$	-400
S^0/HS^-	-260
$2\text{SO}_4^{2-}/\text{S}_2\text{O}_3^{2-}$	-245
$\text{SO}_4^{2-}/\text{HS}^-$	-215
$\text{SO}_4^{2-}/\text{S}^0$	-200
$\text{HSO}_3^-/\text{HS}^-$	-115
$\text{APS}/\text{AMP} + \text{HSO}_3^-$	-60
$\text{HSO}_3^-/\text{S}^0$	-40
$\text{S}_4\text{O}_6^{2-}/2\text{S}_2\text{O}_3^{2-}$	+25

Tabulated values are from Brune (1989) and from Wood (1988). The latter also has a useful discussion of redox potentials for reactions involving elemental sulfur as a function of its activation state in sulfur globules.