

Selenium(–II)

Reaction	Olin et al., 2005	Thoenen et al., 2014
$\text{H}_2\text{Se(g)} \rightleftharpoons \text{H}_2\text{Se(aq)}$	-1.10 ± 0.01	-1.10 ± 0.01
$\text{H}_2\text{Se} \rightleftharpoons \text{HSe}^- + \text{H}^+$	-3.85 ± 0.05	-3.85 ± 0.05
$\text{HSe}^- \rightleftharpoons \text{Se}^{2-} + \text{H}^+$	-14.91 ± 0.20	

Å. Olin, B. Nöläng, L.-O. Öhman, E. Osadchii, E. Rosén, Chemical Thermodynamics of Selenium, OECD Pub., 2005.

T. Thoenen, W. Hummel, U. Berner and E. Curti, The PSI/Nagra Chemical Thermodynamic Database 12/07, Villigen: Paul Scherrer Institut PSI, 2014.

Selenium(IV)

Reaction	Baes and Mesmer, 1976	Olin et al., 2005	Thoenen et al., 2014
$\text{SO}_3^{2-} + \text{H}^+ \rightleftharpoons \text{HSeO}_3^-$		8.36 ± 0.23	8.36 ± 0.23
$\text{HSO}_3^- + \text{H}^+ \rightleftharpoons \text{H}_2\text{SeO}_3$	2.75 ^a	2.64 ± 0.14	2.64 ± 0.14
$\text{SO}_3^{2-} + 2\text{H}^+ \rightleftharpoons \text{H}_2\text{SeO}_3$	11.25 ^a		

^aReaction written as deprotonation reaction in the original publication.

C.F. Baes and R.E. Mesmer, The Hydrolysis of Cations. Wiley, New York, 1976.

Å. Olin, B. Nöläng, L.-O. Öhman, E. Osadchii, E. Rosén, Chemical Thermodynamics of Selenium, OECD Pub., 2005.

T. Thoenen, W. Hummel, U. Berner and E. Curti, The PSI/Nagra Chemical Thermodynamic Database 12/07, Villigen: Paul Scherrer Institut PSI, 2014.

Selenium(VI)

Reaction	Baes and Mesmer, 1976	Olin et al., 2005	Thoenen et al., 2014
$\text{SeO}_4^{2-} + \text{H}^+ \rightleftharpoons \text{HSeO}_4^-$	1.663 ^a	1.75 ± 0.10^a	1.75 ± 0.10

^aReaction written as deprotonation reaction in the original publication.

C.F. Baes and R.E. Mesmer, The Hydrolysis of Cations. Wiley, New York, 1976.

Å. Olin, B. Nöläng, L.-O. Öhman, E. Osadchii and E. Rosén, Chemical Thermodynamics of Selenium, OECD Pub., 2005.

T. Thoenen, W. Hummel, U. Berner, E. Curti, The PSI/Nagra Chemical Thermodynamic Database 12/07, Villigen: Paul Scherrer Institut PSI, 2014.