ZrO_2^+ - ионы

(не все свойства

характерны из ZrO_2, ZrO_2^+)!

UO_2^{2+}

$\Delta_f H^c_{298}$

[BAI/ZAR]

1971.

Bailey A.R., Larson J.W.

"Heat of dilution and the thermodynamics of dissociation of uranyl and vanadyl sulfates"

J. Phys. Chem., 1971, 75, 2368-2372.

UO_2^+

$\Delta_f H^\circ_{298}$

[76FUG/OET] 1976

Fuger J., Oetting F.L.

„The chemical thermodynamics of actinide elements and compounds: Part 2. The actinide aqueous ions, Vienna: International Atomic Energy Agency, 1976, 65p"

UO_2^{2+} - [76 FUG/OET] 1976

$\Delta_f H^\circ_{298}$ Fuger, J., Oetting. F. L.

"The chemical thermodynamics of actinide elements and compounds: Part 2. The actinide aqueous ions; Vienna: International Atomic Energy Agency 1976, 65 p.

UO_2^{2+} [79 GOL] 1979

Goldberg R.N.,

"Evaluated activity coefficients and osmotic coefficients for aqueous solutions: Bi-univalent compound of lead, copper, manganese. and uranium"

J. Phys. Chem. Ref. Data 1979, 8, 1005-50

UO_2^{2+} [82 DEV/YEF] 1982

$\Delta_f H^\circ_{298}$

Devina O. A., Yefimov M. Ye,
Medvedev V. A., Khodakovsky, I. L.
"Thermodynamic properties of
the uranyl ion in aqueous
solution at elevated temperatures"
Geochem. Int., 1982, 5, 161-172.

UO$_2$ Thi

[83 FUG/PAR] 1983

D&H° 258

Fuger J., Parker V.B., Hubbard W.N.,
Oetting F.L.

The chemical thermodynamics of actinide elements and compounds: Part 8. The actinide halides,

Vienna: International Atomic Energy Agency, 1983, 267p.

UO_2^+ [87 RIG/VIT] 1987

$\Delta_f H^\circ_{298}$ Riglet, C., Vitorge P., Grenthe I.,
" Standard potentials of (UO_2^{2+}/UO_2^+) systems for uranium and other actinides., Inorg. Chim. Acta, 1987, 133, 323-29.

UO_2^{2+}

C_p^0 298

[89 HOR/NGU]

1989

Hovey J. K., Nguyen-Trung C., Tremaine P. R.,
"Thermodynamics of aqueous uranyl ion: Apparent and partial molar heat capacities and volumes of aqueous uranyl perchlorate from 10 to 55°C."
Geochim. Cosmochim. Acta, 1989, 53, 1503-09

UO_2^+ [90CAP/VIT] 1980

Dgli° 158

Capdevila, H., Viborge, P.

"Influence on U(VI/V) and U(IV/III) redox potentials in aqueous acidic and carbonate solutions.

Radioanal. Nucl. Chem. Articles

1980, 143, 403-414

UO_2^{2+}

[90CAP/VIT]

1990

Capdevila, H., Vitorge, P.

"Temperature and ionic strength influence on U(VI/V) and U(IV/III) redox potentials in aqueous acidic and carbonate solutions".

J. Radioanal Nucl. Chem. Articles 1990, 143, 403-14.

UO_2^+

[93 MIZ/PAR] 1993

Mizuguchi, K., Park Y. Y., Tomiyasu H.

„Electrochemical and spectroelectrochemical studies on uranyl carbonato and aqua complex"

J. Nucl Sci. Technol. 1993, 30, 542-48.

UO_2^+

[99 DOC/MOS]

1999

Docrat T.I., Mosselmans J.F.W., Charnock J.M., Whiteley M.W., Collison D., Livens F.R., Jones C., Edmiston M.J., "X-ray absorption of tricarbonatodioxouranate(V), $UO_2(CO_3)_3^{5-}$ in aqueous solution." Inorg. Chem., 1999, 38, 1873-82

UO_2^{2+}
S°_{298}

[94 SER/DEV] 1994

Serezhkina L.B., Serezkin V.N;
"Solubility in the UO_2SeO_4-$-(CH_3)_2NCONH_2-H_2$ system"
Radiochemistry (Moskow) 1994, 36.

UO_2^{2+}
SO_4^{2-}

[97GEI/EUR] 1997

Geipel G., Reutsch M., Bernhard G.,
Nitsche H.

"Increase of the ionic strength
of uranyl containing solutions."
Forschungszentrum. Rossendorf
Institute of Radiochemistry,
Annual report 1997

UO_2^{2+}

S^0_{298}

[97GUR/SER] 1997

Gurevich V.M., Sergeyeva E.I.,
Gavrichev K.S., Gorbunov V.E.,
Kuznetova T.P., Khodakovski I.L.
"Thermodynamic properties of
uranyl hydroxide $UO_2(OH)_2$
(cr, 2, rhomb)" Geochem. Int. 1997, 74-87

UO_2^{2+} [99 BOU/B[2] 1999

5^{o} i 88

Bouby M., Billard T., Bonnenfant A., Klein G.

" Are the changes in the lifetime of the exited uranyl ion of chemical or physical nature ? "

Chem. Phys. 1999, 241, 353-70

AnO_2^{2+}
AnO_2^{+}

[2000 HAY/MAR] 2000

Hay P.J., Martin R.L., Schreckenbach G.
„Theoretical studies of the properties and solution chemistry of AnO_2^{2+} and AnO_2^{+} aquo complexes for An = U, Np, Pu"
J. Phys. Chem. A104 (2000), 6259-6270

UO_2^{2+}
S° 288

[2001 SEM/BOE] 2001

Sémon L., Boehme C., Billard I.,
Henning C., Lützenkirchen K., Reich T.,
Rossberg A., Rossini I., Wipff G.

"Do perchlorate and triflate anions
bind to the uranyl cation in acidic
aqueous medium? A combinated EXAFS
and quantum mechanical investigation"
Chem. Phys., 2001, 2, 591-98

UO_2^{2+} [2001 BIL 2/RUS] 2001

Billard I., Rustenholtz A.,
Sémon L., Lützenkirchen K.
„Fluorescence of UO_2^{2+} in a
non-complexing medium: $HClO_4$/NaClO$_4$
up to 10 M."
Chem. Phys. 2001, 270, 345-54.