**Indium**

Minerals (**preliminary**, *in process*)

by

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A preliminary compilation of named indium minerals.

**Mineral** **Formula** **Mineral Group** **References**

Dzhalindite In(OH)3 ? Genkin, A.D., *et al*, 1963.

 Schwartz-Schampera, U., *et al*, 2002.

 Sutherland, J.K., 1971.

Indite FeIn2S4 Linnaeite Genkin, A.D., *et al*, 1963.

 Schwartz-Schampera, U., *et al*, 2002.

Indium (native) In ? Ivanov, V.V., 1963.

 Nechayev, I., 1987.

 Schwartz-Schampera, U., *et al*, 2002.

Jalindite (**same as Dzhalindite!**) Genkin, A.D., *et al*, 1963.

 Schwartz-Schampera, U., *et al*, 2002.

Lafortite AgInS2 Chalcopyrite Ishihara, S., *et al*, 2006.

Meissner, N. *et al*, 1999.

Ohta, E., 1980 & 1989.

 Schwartz-Schampera, U., *et al*, 2002.

Petrukite (Cu,Fe,Zn)3(Sn,In)S4 ? Kissin, S.A., and Owens, D.R., 1989.

 Schwartz-Schampera, U., *et al*, 2002.

Roquesite CuInS2  Chalcopyrite Burke, E.A.J., *et al*, 1980.

 Cantinolle, P., *et al*, 1985.

 Imai, N., *et al*, 1984.

 Ishihara, S., *et al*, 2006.

 Jarenskaya, M.A., *et al*, 1970.

 Kachalovskaya, V.M., *et al*, 1973.

 Murao, S., *et al*, 1991.

 Novak, F., *et al*, 1991.

Picot, P., 1973.

Picot, P., *et al*, 1963.

 Schwartz-Schampera, U., *et al*, 2002.

 Seetharam, R., 1986.

 Shimizu, M., *et al*, 1991.

 Sutherland, J.K., *et al*, 1969.

Sakuraiite (Cu,Zn,Fe,Ag)3(In,Sn)S4 ? Ishihara, S., *et al*, 2006.

 Kato, A., 1965.

 Schwartz-Schampera, U., *et al*, 2002.

Tolovkite InSbS Cobaltite Razin, L.V., *et al*, 1981.

 Schwartz-Schampera, U., *et al*, 2002.

*Unnamed* In2Pt ? Mandarino, J.A., 1996.

 Schwartz-Schampera, U., *et al*, 2002.

*Unnamed* InPt3 ? Mandarino, J.A., 1996.

 Schwartz-Schampera, U., *et al*, 2002.

Yanomamite InAsO4∙2H2O Variscite Botelho, N.F., *et al*, 1994.

 Schwartz-Schampera, U., *et al*, 2002.

Yixunite PtIn ? Schwartz-Schampera, U., *et al*, 2002.

Yu, T.H., *et al*, 1974.

Note 1: The preferential association of In in minerals with Ag, As, Bi, CO3-2, Cu, Fe, H2O, OH-, Pb, Pt, S-2, Sb, Sn, and Zn has profound chemical, exploration and resource estimation implications.

**Note 2: The three In-Pt minerals may have special significance, *vis-à-vis* semiconductors, imaging devices and photovoltaics. Further research is warranted.**

Note 3: A reasonably thorough literature search indicates that none of these indium minerals has been documented as occurring naturally in Colorado. I believe they have simply been overlooked, primarily because of the difficulty in recognizing such small grain size, intercalated crystals which can be reliably differentiated only with specialized equipment.