

555152

Xiong, Yongliang

Yongliang Xiong

~~03/09/2011~~

YX/03/15/11

From: Xiong, Yongliang
Sent: Wednesday, March 09, 2011 12:58 PM
To: Long, Jennifer J
Cc: Chavez, Mario Joseph; Brush, Laurence H; Leigh, Christi D
Subject: Release of EQ3/6 Database DATA0.FM1

03/15/2011

Attachments: data0.fm1; comparison_fm1_fmt.txt

Jennifer,

Could you please archive DATA0.FM1 in the CMS, which is exact form of DATA0.FMT.R2. The new database is named as DATA0.FM1 because EQ3/6 accepts only three letter extension for a data base when it is compiled under EQPT.

The DATA0.FM1 is the revision of DATA0.FMT.R1 by incorporation of the equilibrium constant of phase 5 ($Mg_3Cl(OH)_5 \cdot 4H_2O$). The equilibrium constant is from Xiong et al. (2010).

Attached is a comparison file (COMPARISON_FM1_FMT.TXT) between DATA0.FM1 and DATA0.FMT.R1. The differences result from addition of $Mg_3Cl(OH)_5 \cdot 4H_2O$ into the database.

Thanks!

Reference

Xiong, Y.-L., Deng, H.-R., Nemer, M., Johnsen, S., 2010. Experimental determination of the solubility constant for magnesium chloride hydroxide hydrate ($Mg_3Cl(OH)_5 \cdot 4H_2O$, phase 5) at room temperature, and its importance to nuclear waste isolation in geological repositories in salt formations. *Geochimica et Cosmochimica Acta* 74, 4605-4611

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data0.fm1 (221 KB); comparison_fm1_fm1_fmt.txt (55 KB)...

WIPP: 1.4, 2.2 : TD : QA-L : 549149

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