The Data in this folder are from this publication:

2015 Hofmeister, A.M., and Carpenter P. Heat transport of micas, *Canadian Mineralogist* **53**, 557-570.

**See Crystals Database File in metadata folder for complete list of Crystals samples/compositions and references.**

**Data collected at Washington University, St. Louis, MO**

**Supported by NSF: EAR-0757841 & EAR-1321857**

Files

Table 1 – Sample Descriptions

Table 3 – Formulae & Thermal Diffusivity Values at RT

Figure 3 - UV Spectra – Excel Files

Column 1: Wavelength (WL/nm)

Column 2: Absorption Coefficient

|  |  |  |  |
| --- | --- | --- | --- |
| **UV Spectra File Name** | **Sample Thickness (mm)** | **Sample** | **Description** |
| LMGB83A | 3.612 | Lepidolite B | Unpolarized, Perpendicular to Cleavage |
| PHLOG77A | 1.525 | Phlogopite A | Unpolarized, Perpendicular to Cleavage |
| MIPAMA1A | 3.153 | Muscovite P | Unpolarized, Perpendicular to Cleavage |
| PARAGO1A | 2.323 | Muscovite F | Unpolarized, Perpendicular to Cleavage |
| ZINWA1A1 | 3.475 | Zinwaldite | Unpolarized, Perpendicular to Cleavage |
| PHLOG3A | 2.6 | Phlogopite Q | Unpolarized, Perpendicular to Cleavage |
| MUSCO715 | 3.3 | Muscovite K | Unpolarized, Perpendicular to Cleavage |
| BIOSC929 | 0.018 | Biotite | Basal sections |
| PHIL922 | 0.026 | Phlogopite Q | Basal sections |
| PHLGP1A | 0.44 | Phlogopite A | Basal sections |
| PHLOGQ3A | 0.206 | Phlogopite Q | Basal sections |
| PHLOUT1A | 0.2 | Phlogopite C | Basal sections |
| BIOFNY1A | 0.3 | Phlogopite J | Basal sections |
| BBIOT1A | 0.2 | Phlogopite B | Basal sections |
| MARGA1A | 0.28 | Margarite | Basal sections |
| MUSPM1A | 0.26 | Muscovite P | Basal sections |
| MUSCG6A | 0.292 | Muscovite G | Basal sections |
| MUSCK9A | 0.209 | Muscovite K | Basal sections |
| LEPDNM1A | 0.3 | Lepidolite N | Basal sections |
| MUSSGY1A | 0.3 | Zinwaldite | Basal sections |

Raw Probe Data

|  |  |
| --- | --- |
| **Sample Type** | **Filename** |
| Micas | Hofmesiter micas 10-27-2010; Hofmeister 5-1-2012 mica samples |
| Phlogopite | Hofmeister 4-8-11 Samples |