

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Simmondsia chinensis***

| Activity Count | Chemical                      | Plant Part | Low PPM | High PPM | StdDev               | Reference Citation |
|----------------|-------------------------------|------------|---------|----------|----------------------|--------------------|
| 0              | ASH                           | Seed       | 14000   | 16000    | -0.958878261173337   |                    |
| 28             | CALCIUM                       | Seed       | 372     | 372      | -0.6932019757180448  |                    |
| 0              | CARBOHYDRATES                 | Seed       | 246000  | 291000   | -0.9236136389705426  |                    |
| 2              | COBALT                        | Seed       | 0.7     | 0.7      | -0.17558398623070962 |                    |
| 12             | COPPER                        | Seed       | 10      | 10       | -0.43669625458362493 |                    |
| 0              | FAT                           | Seed       | 456000  | 538000   | 1.4359470701725245   |                    |
| 15             | FIBER                         | Seed       | 35000   | 42000    | -0.7325974298607266  |                    |
| 6              | IRON                          | Seed       | 46      | 46       | -0.4869008636830729  |                    |
| 0              | ISORHAMNETIN-3,7-DIRHAMNOSIDE | Leaf       | --      | --       |                      |                    |
| 2              | ISORHAMNETIN-3-RUTINOSIDE     | Leaf       | --      | --       |                      |                    |
| 65             | MAGNESIUM                     | Seed       | 1410    | 1410     | -0.6069045775753158  |                    |
| 14             | MANGANESE                     | Seed       | 21      | 21       | -0.40511016640256897 |                    |
| 0              | NARCISSIN                     | Leaf       | --      | --       |                      |                    |
| 3              | NICKEL                        | Seed       | 4       | 4        | -0.14389814511946067 |                    |
| 14             | POTASSIUM                     | Seed       | 6610    | 6610     | -0.524148104097403   |                    |
| 0              | PROTEIN                       | Seed       | 149000  | 156000   | -0.6920363095019975  |                    |
| 1              | SIMMONDSIN                    | Seed       | --      | --       |                      |                    |
| 1              | SODIUM                        | Seed       | 136     | 136      | -0.4998275436774102  |                    |

| <b>Activity Count</b> | <b>Chemical</b> | <b>Plant Part</b> | <b>Low PPM</b> | <b>High PPM</b> | <b>StdDev</b>       | <b>Reference Citation</b> |
|-----------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------------|
| 0                     | WATER           | Seed              | 43000          | 46000           | -0.696902194023936  |                           |
| 77                    | ZINC            | Seed              | 16             | 16              | -0.8270647141112636 |                           |