

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ilex paraguariensis*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--------------------------|------------|----------|----------|----------------------|-------------------|
| 0 | 2,5-XYLENOL | Leaf | | | | -- |
| 0 | 4-OXOLAURIC-ACID | Leaf | | | | -- |
| 1 | 5-O-CAFFEYOYLQUINIC-ACID | Leaf | | | | -- |
| 0 | ASH | Seed | | 13000.0 | -1.0491111510661388 | -- |
| 0 | ASH | Leaf | | 42500.0 | -1.3452230844968343 | -- |
| 9 | BETA-AMYRIN | Leaf | | | | -- |
| 6 | BUTYRIC-ACID | Leaf | | | | -- |
| 62 | CAFFEINE | Leaf | 2000.0 | 20000.0 | -0.44207532185590015 | -- |
| 77 | CHLOROGENIC-ACID | Leaf | | | | -- |
| 21 | CHLOROPHYLL | Leaf | | 19000.0 | -0.2398973754016489 | -- |
| 20 | CHOLINE | Leaf | | | | -- |
| 0 | EO | Leaf | | 3000.0 | -0.7507396833089339 | -- |
| 0 | FAT | Seed | 161000.0 | 173000.0 | -0.48663849003238874 | -- |
| 15 | FIBER | Leaf | | 176800.0 | 0.18877021553548767 | -- |
| 8 | INOSITOL | Leaf | | | | -- |
| 2 | ISOBUTYRIC-ACID | Leaf | | | | -- |
| 0 | ISOCAPRONIC-ACID | Leaf | | | | -- |
| 5 | ISOVALERIC-ACID | Leaf | | | | -- |
| 2 | NEO-CHLOROGENIC-ACID | Leaf | | | | -- |
| 11 | NICOTINIC-ACID | Leaf | | | | -- |
| 0 | NITROGEN | Leaf | | 30000.0 | -0.6884022915379184 | -- |
| 11 | PANTOTHENIC-ACID | Leaf | | | | -- |
| 0 | PRBER | Seed | 520000.0 | 560000.0 | | -- |
| 0 | PROTEIN | Seed | 64000.0 | 69000.0 | -1.4659463648914988 | -- |
| 0 | PROTEIN | Leaf | | 190000.0 | -0.2179254748399875 | -- |
| 43 | PYRIDOXINE | Leaf | | | | -- |
| 0 | RESIN | Leaf | | 48000.0 | -0.37305110431736865 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--------------|------------|---------|----------|---------------------|-------------------|
| 0 | RESINIC-ACID | Leaf | | | | -- |
| 15 | RIBOFLAVIN | Leaf | | | | -- |
| 87 | RUTIN | Leaf | | | | -- |
| 8 | STEARIC-ACID | Leaf | | | | -- |
| 35 | TANNIN | Leaf | 40000.0 | 160000.0 | 0.6039221294970823 | -- |
| 21 | THEOBROMINE | Leaf | 960.0 | 5000.0 | 1.0 | -- |
| 36 | THEOPHYLLINE | Leaf | 0.0 | 500.0 | 1.0 | -- |
| 15 | TRIGONELLINE | Leaf | | | | -- |
| 89 | URSOLIC-ACID | Leaf | | | | -- |
| 28 | VANILLIN | Leaf | | | | -- |
| 0 | WATER | Seed | | 72000.0 | -0.5971293485746952 | -- |
| 0 | WATER | Leaf | | 55000.0 | -3.7548957945142525 | -- |