

**Computation of degrees of freedom (Default model)**

|  |  |
| --- | --- |
| Number of distinct sample moments: | 78 |
| Number of distinct parameters to be estimated: | 28 |
| Degrees of freedom (78 - 28): | 50 |

**Result (Default model)**

Minimum was achieved

Chi-square = 101.680

Degrees of freedom = 50

Probability level = .000

**Group number 1 (Group number 1 - Default model)**

**Estimates (Group number 1 - Default model)**

**Scalar Estimates (Group number 1 - Default model)**

**Maximum Likelihood Estimates**

**Regression Weights: (Group number 1 - Default model)**

|  |  |  | Estimate | S.E. | C.R. | P | Label |
| --- | --- | --- | --- | --- | --- | --- | --- |
| aetemad | <--- | metemad | 1.283 | .251 | 5.104 | \*\*\* |  |
| md | <--- | metemad | 1.000 |  |  |  |  |
| rr | <--- | metemad | 1.729 | .320 | 5.395 | \*\*\* |  |
| tj | <--- | metemad | 1.510 | .285 | 5.293 | \*\*\* |  |
| am | <--- | metemad | 1.264 | .227 | 5.579 | \*\*\* |  |
| tm | <--- | metemad | 1.511 | .282 | 5.355 | \*\*\* |  |
| nt | <--- | metemad | 1.646 | .310 | 5.307 | \*\*\* |  |
| abr | <--- | metemad | 1.625 | .300 | 5.422 | \*\*\* |  |
| he | <--- | metemad | 1.686 | .310 | 5.436 | \*\*\* |  |
| keb | <--- | metemad | 1.791 | .335 | 5.346 | \*\*\* |  |
| ghe | <--- | aetemad | 1.000 |  |  |  |  |
| ks | <--- | aetemad | 1.031 | .096 | 10.728 | \*\*\* |  |
| mbt | <--- | aetemad | .937 | .069 | 13.563 | \*\*\* |  |

**Standardized Regression Weights: (Group number 1 - Default model)**

|  |  |  | Estimate |
| --- | --- | --- | --- |
| aetemad | <--- | metemad | .764 |
| md | <--- | metemad | .409 |
| rr | <--- | metemad | .839 |
| tj | <--- | metemad | .782 |
| am | <--- | metemad | .519 |
| tm | <--- | metemad | .815 |
| nt | <--- | metemad | .790 |
| abr | <--- | metemad | .857 |
| he | <--- | metemad | .864 |
| keb | <--- | metemad | .811 |
| ghe | <--- | aetemad | .904 |
| ks | <--- | aetemad | .715 |
| mbt | <--- | aetemad | .841 |

**Covariances: (Group number 1 - Default model)**

|  |  |  | Estimate | S.E. | C.R. | P | Label |
| --- | --- | --- | --- | --- | --- | --- | --- |
| er4 | <--> | er7 | -.289 | .056 | -5.177 | \*\*\* |  |
| er1 | <--> | er4 | .538 | .120 | 4.471 | \*\*\* |  |
| er6 | <--> | er9 | .152 | .049 | 3.123 | .002 |  |

**Correlations: (Group number 1 - Default model)**

|  |  |  | Estimate |
| --- | --- | --- | --- |
| er4 | <--> | er7 | -.442 |
| er1 | <--> | er4 | .361 |
| er6 | <--> | er9 | .288 |

**Variances: (Group number 1 - Default model)**

|  |  |  | Estimate | S.E. | C.R. | P | Label |
| --- | --- | --- | --- | --- | --- | --- | --- |
| metemad |  |  | .320 | .119 | 2.688 | .007 |  |
| er.aetemad |  |  | .377 | .064 | 5.867 | \*\*\* |  |
| er1 |  |  | 1.599 | .177 | 9.048 | \*\*\* |  |
| er2 |  |  | .404 | .051 | 7.921 | \*\*\* |  |
| er3 |  |  | .464 | .056 | 8.343 | \*\*\* |  |
| er4 |  |  | 1.390 | .154 | 9.039 | \*\*\* |  |
| er5 |  |  | .370 | .045 | 8.129 | \*\*\* |  |
| er6 |  |  | .522 | .063 | 8.237 | \*\*\* |  |
| er7 |  |  | .307 | .041 | 7.529 | \*\*\* |  |
| er8 |  |  | .309 | .041 | 7.612 | \*\*\* |  |
| er9 |  |  | .536 | .066 | 8.108 | \*\*\* |  |
| er10 |  |  | .202 | .047 | 4.324 | \*\*\* |  |
| er11 |  |  | .920 | .114 | 8.058 | \*\*\* |  |
| er12 |  |  | .330 | .052 | 6.348 | \*\*\* |  |

**Squared Multiple Correlations: (Group number 1 - Default model)**

|  |  |  | Estimate |
| --- | --- | --- | --- |
| aetemad |  |  | .583 |
| mbt |  |  | .707 |
| ks |  |  | .511 |
| ghe |  |  | .818 |
| keb |  |  | .657 |
| he |  |  | .747 |
| abr |  |  | .734 |
| nt |  |  | .624 |
| tm |  |  | .664 |
| am |  |  | .269 |
| tj |  |  | .612 |
| rr |  |  | .703 |
| md |  |  | .167 |

**Matrices (Group number 1 - Default model)**

**Implied (for all variables) Covariances (Group number 1 - Default model)**

|  | metemad | aetemad | mbt | ks | ghe | keb | he | abr | nt | tm | am | tj | rr | md |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| metemad | .320 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| aetemad | .411 | .905 |  |  |  |  |  |  |  |  |  |  |  |  |
| mbt | .385 | .848 | 1.124 |  |  |  |  |  |  |  |  |  |  |  |
| ks | .424 | .932 | .874 | 1.881 |  |  |  |  |  |  |  |  |  |  |
| ghe | .411 | .905 | .848 | .932 | 1.106 |  |  |  |  |  |  |  |  |  |
| keb | .574 | .736 | .690 | .759 | .736 | 1.564 |  |  |  |  |  |  |  |  |
| he | .540 | .693 | .650 | .715 | .693 | .968 | 1.221 |  |  |  |  |  |  |  |
| abr | .521 | .668 | .626 | .689 | .668 | .933 | .878 | 1.154 |  |  |  |  |  |  |
| nt | .527 | .677 | .634 | .697 | .677 | 1.097 | .889 | .857 | 1.390 |  |  |  |  |  |
| tm | .484 | .621 | .582 | .640 | .621 | .867 | .816 | .787 | .797 | 1.101 |  |  |  |  |
| am | .405 | .520 | .487 | .536 | .520 | .725 | .683 | .369 | .667 | .612 | 1.902 |  |  |  |
| tj | .484 | .621 | .582 | .640 | .621 | .867 | .816 | .787 | .796 | .731 | .612 | 1.195 |  |  |
| rr | .554 | .711 | .666 | .733 | .711 | .992 | .934 | .900 | .912 | .837 | .700 | .837 | 1.362 |  |
| md | .320 | .411 | .385 | .424 | .411 | .574 | .540 | .521 | .527 | .484 | .943 | .484 | .554 | 1.919 |

**Implied (for all variables) Correlations (Group number 1 - Default model)**

|  | metemad | aetemad | mbt | ks | ghe | keb | he | abr | nt | tm | am | tj | rr | md |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| metemad | 1.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| aetemad | .764 | 1.000 |  |  |  |  |  |  |  |  |  |  |  |  |
| mbt | .642 | .841 | 1.000 |  |  |  |  |  |  |  |  |  |  |  |
| ks | .546 | .715 | .601 | 1.000 |  |  |  |  |  |  |  |  |  |  |
| ghe | .691 | .904 | .760 | .646 | 1.000 |  |  |  |  |  |  |  |  |  |
| keb | .811 | .619 | .520 | .443 | .560 | 1.000 |  |  |  |  |  |  |  |  |
| he | .864 | .660 | .555 | .472 | .597 | .701 | 1.000 |  |  |  |  |  |  |  |
| abr | .857 | .654 | .550 | .468 | .591 | .694 | .740 | 1.000 |  |  |  |  |  |  |
| nt | .790 | .603 | .507 | .431 | .546 | .744 | .683 | .677 | 1.000 |  |  |  |  |  |
| tm | .815 | .622 | .523 | .445 | .563 | .661 | .704 | .698 | .644 | 1.000 |  |  |  |  |
| am | .519 | .396 | .333 | .283 | .358 | .421 | .448 | .249 | .410 | .423 | 1.000 |  |  |  |
| tj | .782 | .597 | .502 | .427 | .540 | .634 | .676 | .670 | .618 | .637 | .406 | 1.000 |  |  |
| rr | .839 | .640 | .538 | .458 | .579 | .680 | .725 | .718 | .663 | .683 | .435 | .656 | 1.000 |  |
| md | .409 | .312 | .262 | .223 | .282 | .331 | .353 | .350 | .323 | .333 | .494 | .320 | .343 | 1.000 |

**Implied Covariances (Group number 1 - Default model)**

|  | mbt | ks | ghe | keb | he | abr | nt | tm | am | tj | rr | md |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mbt | 1.124 |  |  |  |  |  |  |  |  |  |  |  |
| ks | .874 | 1.881 |  |  |  |  |  |  |  |  |  |  |
| ghe | .848 | .932 | 1.106 |  |  |  |  |  |  |  |  |  |
| keb | .690 | .759 | .736 | 1.564 |  |  |  |  |  |  |  |  |
| he | .650 | .715 | .693 | .968 | 1.221 |  |  |  |  |  |  |  |
| abr | .626 | .689 | .668 | .933 | .878 | 1.154 |  |  |  |  |  |  |
| nt | .634 | .697 | .677 | 1.097 | .889 | .857 | 1.390 |  |  |  |  |  |
| tm | .582 | .640 | .621 | .867 | .816 | .787 | .797 | 1.101 |  |  |  |  |
| am | .487 | .536 | .520 | .725 | .683 | .369 | .667 | .612 | 1.902 |  |  |  |
| tj | .582 | .640 | .621 | .867 | .816 | .787 | .796 | .731 | .612 | 1.195 |  |  |
| rr | .666 | .733 | .711 | .992 | .934 | .900 | .912 | .837 | .700 | .837 | 1.362 |  |
| md | .385 | .424 | .411 | .574 | .540 | .521 | .527 | .484 | .943 | .484 | .554 | 1.919 |

**Implied Correlations (Group number 1 - Default model)**

|  | mbt | ks | ghe | keb | he | abr | nt | tm | am | tj | rr | md |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mbt | 1.000 |  |  |  |  |  |  |  |  |  |  |  |
| ks | .601 | 1.000 |  |  |  |  |  |  |  |  |  |  |
| ghe | .760 | .646 | 1.000 |  |  |  |  |  |  |  |  |  |
| keb | .520 | .443 | .560 | 1.000 |  |  |  |  |  |  |  |  |
| he | .555 | .472 | .597 | .701 | 1.000 |  |  |  |  |  |  |  |
| abr | .550 | .468 | .591 | .694 | .740 | 1.000 |  |  |  |  |  |  |
| nt | .507 | .431 | .546 | .744 | .683 | .677 | 1.000 |  |  |  |  |  |
| tm | .523 | .445 | .563 | .661 | .704 | .698 | .644 | 1.000 |  |  |  |  |
| am | .333 | .283 | .358 | .421 | .448 | .249 | .410 | .423 | 1.000 |  |  |  |
| tj | .502 | .427 | .540 | .634 | .676 | .670 | .618 | .637 | .406 | 1.000 |  |  |
| rr | .538 | .458 | .579 | .680 | .725 | .718 | .663 | .683 | .435 | .656 | 1.000 |  |
| md | .262 | .223 | .282 | .331 | .353 | .350 | .323 | .333 | .494 | .320 | .343 | 1.000 |

**Residual Covariances (Group number 1 - Default model)**

|  | mbt | ks | ghe | keb | he | abr | nt | tm | am | tj | rr | md |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mbt | .000 |  |  |  |  |  |  |  |  |  |  |  |
| ks | -.023 | .000 |  |  |  |  |  |  |  |  |  |  |
| ghe | .000 | .014 | .000 |  |  |  |  |  |  |  |  |  |
| keb | .002 | -.039 | -.074 | .000 |  |  |  |  |  |  |  |  |
| he | .027 | -.008 | .035 | .013 | .000 |  |  |  |  |  |  |  |
| abr | .093 | .051 | .044 | -.062 | -.029 | .000 |  |  |  |  |  |  |
| nt | .007 | -.034 | -.024 | .000 | .013 | -.033 | .000 |  |  |  |  |  |
| tm | .085 | .015 | .037 | -.004 | -.044 | .101 | -.030 | .000 |  |  |  |  |
| am | -.191 | -.102 | -.134 | .136 | .054 | -.035 | .092 | -.225 | .066 |  |  |  |
| tj | -.063 | .047 | -.018 | .029 | .040 | -.085 | -.013 | .023 | .230 | .000 |  |  |
| rr | -.018 | -.034 | -.068 | .028 | .004 | .040 | .030 | -.022 | -.044 | -.047 | .000 |  |
| md | -.096 | .057 | -.012 | .118 | .073 | -.104 | -.078 | -.052 | .097 | .147 | -.038 | .000 |

**Standardized Residual Covariances (Group number 1 - Default model)**

|  | mbt | ks | ghe | keb | he | abr | nt | tm | am | tj | rr | md |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mbt | .000 |  |  |  |  |  |  |  |  |  |  |  |
| ks | -.179 | .000 |  |  |  |  |  |  |  |  |  |  |
| ghe | -.002 | .105 | .000 |  |  |  |  |  |  |  |  |  |
| keb | .015 | -.272 | -.633 | .000 |  |  |  |  |  |  |  |  |
| he | .263 | -.064 | .336 | .099 | .000 |  |  |  |  |  |  |  |
| abr | .924 | .406 | .434 | -.488 | -.259 | .000 |  |  |  |  |  |  |
| nt | .065 | -.247 | -.218 | .000 | .106 | -.279 | .000 |  |  |  |  |  |
| tm | .878 | .124 | .383 | -.030 | -.400 | .950 | -.262 | .000 |  |  |  |  |
| am | -1.603 | -.670 | -1.123 | .940 | .421 | -.296 | .679 | -1.853 | .316 |  |  |  |
| tj | -.634 | .375 | -.178 | .236 | .354 | -.775 | -.112 | .221 | 1.829 | .000 |  |  |
| rr | -.167 | -.252 | -.619 | .208 | .033 | .335 | .233 | -.193 | -.327 | -.403 | .000 |  |
| md | -.820 | .381 | -.103 | .835 | .582 | -.852 | -.592 | -.437 | .593 | 1.195 | -.288 | .000 |

**Modification Indices (Group number 1 - Default model)**

**Covariances: (Group number 1 - Default model)**

|  |  |  | M.I. | Par Change |
| --- | --- | --- | --- | --- |
| er5 | <--> | er7 | 7.128 | .073 |
| er4 | <--> | er5 | 7.604 | -.139 |
| er3 | <--> | er12 | 5.240 | -.083 |
| er3 | <--> | er4 | 4.759 | .122 |
| er1 | <--> | er6 | 4.688 | -.137 |

**Variances: (Group number 1 - Default model)**

|  |  |  | M.I. | Par Change |
| --- | --- | --- | --- | --- |

**Regression Weights: (Group number 1 - Default model)**

|  |  |  | M.I. | Par Change |
| --- | --- | --- | --- | --- |
| tm | <--- | abr | 4.468 | .098 |
| tm | <--- | am | 13.481 | -.132 |
| tj | <--- | am | 10.954 | .132 |
| tj | <--- | md | 4.422 | .083 |

**Minimization History (Default model)**

| Iteration |  | Negative eigenvalues | Condition # | Smallest eigenvalue | Diameter | F | NTries | Ratio |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | e | 5 |  | -1.585 | 9999.000 | 1453.264 | 0 | 9999.000 |
| 1 | e | 9 |  | -.413 | 2.819 | 837.238 | 20 | .209 |
| 2 | e | 4 |  | -.191 | .827 | 480.656 | 5 | .977 |
| 3 | e\* | 1 |  | -.034 | 1.145 | 272.048 | 5 | .560 |
| 4 | e | 0 | 686.335 |  | .587 | 164.431 | 5 | 1.092 |
| 5 | e | 0 | 348.699 |  | .476 | 141.623 | 3 | .000 |
| 6 | e | 0 | 318.406 |  | .752 | 112.556 | 1 | 1.191 |
| 7 | e | 0 | 590.199 |  | .559 | 104.181 | 1 | 1.202 |
| 8 | e | 0 | 814.565 |  | .611 | 102.291 | 1 | 1.132 |
| 9 | e | 0 | 1709.955 |  | .333 | 101.757 | 1 | 1.167 |
| 10 | e | 0 | 2493.665 |  | .222 | 101.683 | 1 | 1.092 |
| 11 | e | 0 | 2881.223 |  | .042 | 101.680 | 1 | 1.030 |
| 12 | e | 0 | 2793.183 |  | .003 | 101.680 | 1 | 1.002 |
| 13 | e | 0 | 2794.823 |  | .000 | 101.680 | 1 | 1.000 |

**Model Fit Summary**

**CMIN**

| Model | NPAR | CMIN | DF | P | CMIN/DF |
| --- | --- | --- | --- | --- | --- |
| Default model | 28 | 101.680 | 50 | .000 | 2.034 |
| Saturated model | 78 | .000 | 0 |  |  |
| Independence model | 12 | 1489.525 | 66 | .000 | 22.569 |

**RMR, GFI**

| Model | RMR | GFI | AGFI | PGFI |
| --- | --- | --- | --- | --- |
| Default model | .069 | .908 | .857 | .582 |
| Saturated model | .000 | 1.000 |  |  |
| Independence model | .672 | .235 | .096 | .199 |

**Baseline Comparisons**

| Model | NFI Delta1 | RFI rho1 | IFI Delta2 | TLI rho2 | CFI |
| --- | --- | --- | --- | --- | --- |
| Default model | .932 | .910 | .964 | .952 | .964 |
| Saturated model | 1.000 |  | 1.000 |  | 1.000 |
| Independence model | .000 | .000 | .000 | .000 | .000 |

**Parsimony-Adjusted Measures**

| Model | PRATIO | PNFI | PCFI |
| --- | --- | --- | --- |
| Default model | .758 | .706 | .730 |
| Saturated model | .000 | .000 | .000 |
| Independence model | 1.000 | .000 | .000 |

**NCP**

| Model | NCP | LO 90 | HI 90 |
| --- | --- | --- | --- |
| Default model | 51.680 | 26.683 | 84.450 |
| Saturated model | .000 | .000 | .000 |
| Independence model | 1423.525 | 1301.625 | 1552.812 |

**FMIN**

| Model | FMIN | F0 | LO 90 | HI 90 |
| --- | --- | --- | --- | --- |
| Default model | .605 | .308 | .159 | .503 |
| Saturated model | .000 | .000 | .000 | .000 |
| Independence model | 8.866 | 8.473 | 7.748 | 9.243 |

**RMSEA**

| Model | RMSEA | LO 90 | HI 90 | PCLOSE |
| --- | --- | --- | --- | --- |
| Default model | .078 | .056 | .100 | .019 |
| Independence model | .358 | .343 | .374 | .000 |

**AIC**

| Model | AIC | BCC | BIC | CAIC |
| --- | --- | --- | --- | --- |
| Default model | 157.680 | 162.376 | 245.317 | 273.317 |
| Saturated model | 156.000 | 169.084 | 400.132 | 478.132 |
| Independence model | 1513.525 | 1515.538 | 1551.084 | 1563.084 |

**ECVI**

| Model | ECVI | LO 90 | HI 90 | MECVI |
| --- | --- | --- | --- | --- |
| Default model | .939 | .790 | 1.134 | .967 |
| Saturated model | .929 | .929 | .929 | 1.006 |
| Independence model | 9.009 | 8.283 | 9.779 | 9.021 |

**HOELTER**

| Model | HOELTER .05 | HOELTER .01 |
| --- | --- | --- |
| Default model | 112 | 126 |
| Independence model | 10 | 11 |

**Execution time summary**

|  |  |
| --- | --- |
| Minimization: | .000 |
| Miscellaneous: | .172 |
| Bootstrap: | .000 |
| Total: | .172 |