|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Substance-trial** | M | Uncertainty in Mass (kg) | Ti (°C) | Uncertainty in Ti (°C) | Uncertainty in Tf(°C)  | **Δ**T (K) | Uncertainty in **Δ**T (K) | Mw (Kg) | Uncertainty of MW  | TI of water  | Uncertainty of T­I­ water | **Δ**Tw­ | Tf  | Q (J) | C (JKg-1K-1) | % error in C | Uncertainty in C |
| aluminium-1 | 0.042 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 23.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 2.0 | 25.0 | 836 | 865 | 54.33% | ±500 |
| Aluminium-2 | 0.042 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 23.0 | ±1.0 | 0.100 | ±0.00001 | 24.0 | ±0.5 | 4.0 | 25.0 | 1672 | 1731 | 29.382% | ±509 |
| Aluminium -3 | 0.042 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 19.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 6.0 | 29.0 | 2508 | 3174 | 21.964% | ±687 |
| Avg. Aluminium  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 865 | 54.33% | ±500 |
| Copper (II)- 1 | 0.139 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 22.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 3.0 | 26.0 | 1254 | 438 | 37.89% | ±165 |
| Copper(II) - 2 | 0.139 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 22.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 3.0 | 26.0 | 1254 | 410 | 37.886% | ±155 |
| Copper (II) -3  | 0.139 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 22.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 3.0 | 26.0 | 1254 | 409 | 37.896% | ±155 |
| Avg. Copper | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 419 | 37.890% | ±158 |
| Zinc – 1 | 0.103 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 23.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 2.0 | 25.0 | 836 | 353 | 54.32% | ±192 |
| Zinc – 2 | 0.103 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 21.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 4.0 | 27.0 | 1672 | 773 | 29.78% | ±230 |
| Zinc – 3 | 0.103 | ±0.00001 | 48.0 | ±0.5 | ±0.5 | 22.0 | ±1.0 | 0.100 | ±0.00001 | 23.0 | ±0.5 | 3.0 | 26.0 | 1254 | 538 | 37.898% | ±204 |
| Avg. Zinc | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 570 | 40.626% | ±209 |