**Tabel 1**. Data percobaan dan prediksi kadar flavonoid dengan desain Box-Behnken

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Faktor | | | Respons | | Selisih |
| Daya  (watt) | Konsentrasi pelarut  (%) | Waktu ekstraksi  (menit) | Kadar Flavonoid  (Percobaan) | Kadar Flavonoid  (Prediksi) |  |
| 1 | 300 | 30 | 8 | 0,2031 | 0,1998 | 0.0033 |
| 2 | 300 | 50 | 7 | 0,2199 | 0,2311 | -0.0112 |
| 3 | 300 | 50 | 9 | 0,2140 | 0,1960 | 0.0180 |
| 4 | 300 | 70 | 8 | 0,2031 | 0,2180 | -0.010 |
| 5 | 450 | 30 | 7 | 0,2066 | 0,1986 | 0.0080 |
| 6 | 450 | 30 | 9 | 0,1273 | 0,1485 | -0.0212 |
| 7 | 450 | 50 | 8 | 0,2895 | 0,2930 | -0.0035 |
| 8 | 450 | 50 | 8 | 0,2961 | 0,2930 | 0.0031 |
| 9 | 450 | 50 | 8 | 0,2934 | 0,1703 | 0.0004 |
| 10 | 450 | 70 | 7 | 0,1916 | 0,1662 | 0.0213 |
| 11 | 450 | 70 | 9 | 0,1583 | 0,1819 | -0.0079 |
| 12 | 600 | 70 | 8 | 0,1920 | 0,1817 | 0.0101 |
| 13 | 600 | 50 | 7 | 0,1638 | 0,1626 | -0.0179 |
| 14 | 600 | 50 | 9 | 0,1738 | 0,1626 | 0.0112 |
| 15 | 600 | 70 | 8 | 0,1499 | 0,1531 | -0.0032 |

**Tabel 2**. Statistik Regresi dan *Analysis of variance* (ANOVA) untuk Kadar Flavonoid

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Source* | *Sun of Square* | *df* | *Mean Square* | *F Value* | *p-value Prob > F* |
| Model | 0.036 | 9 | 3.963E-003 | 9.13 | 0.0127 |
| *Residual* | 2.170E-003 | 5 | 4.340E-004 |  |  |
| *Lack of Fit* | 2.148E-003 | 3 | 7.160E-004 | 65.03 | 0.0152 |
| *Pure Error* | 2.170E-003 | 2 | 1.101E-005 |  |  |
| Cor Total | 0.038 | 14 |  |  |  |

Nilai koefisien determinasi (R2) adalah 0,9426 atau 94,26% dan koefisien determinasi *adjust*

R2 adj = 0,8394