**Top 30 optimal features**

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| --- | --- | --- |
| **Rank** | **Feature Name** | **Type** |
| 1 | 100 | Hydrophobic |
| 2 | 1101 | Pβ |
| 3 | 101 | Hydrophobic |
| 4 | 111 | Hydrophobic |
| 5 | 1011 | Pβ |
| 6 | 100 | Pα |
| 7 | 1010 | Pβ |
| 8 | 101 | Pα |
| 9 | 1111 | Pα |
| 10 | 01 | Pβ |
| 11 | 10 | Pβ |
| 12 | 101 | Pτ |
| 13 | 011 | Pβ |
| 14 | 111 | Pβ |
| 15 | 111 | Pτ |
| 16 | 110 | Pβ |
| 17 | 100 | Pα |
| 18 | 101 | Pβ |
| 19 | 00 | Pτ |
| 20 | 11 | Pβ |
| 21 | 1111 | Hydrophobic |
| 22 | 0000 | Pτ |
| 23 | 11 | polarity |
| 24 | 000 | Pτ |
| 25 | 00 | Pβ |
| 26 | 0000 | Pβ |
| 27 | 11 | Hydrophobic |
| 28 | 000 | Pβ |
| 29 | 00 | Hydrophobic |
| 30 | 0000 | Hydrophobic |
| 30 | 000 | Hydrophobic |