Summary - Int 7, Group B, 𝚫𝚫G Version

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# *Intermidiate 7*

### Model 3P

| formula | R.sq | Q.sq | MAE |
| --- | --- | --- | --- |
| ddg ~ diff\_NBO\_4\_10 + Dist.10..8. + B1\_3\_9 | 0.664 | 0.441 | 0.375 |
| ddg ~ NPA\_4 + Dist.10..8. + B1\_3\_9 | 0.669 | 0.435 | 0.373 |

***Multicollinearity check***

|  | x |
| --- | --- |
| diff\_NBO\_4\_10 | 1.094 |
| Dist.10..8. | 1.381 |
| B1\_3\_9 | 1.275 |

***Scaled Coefficients:***

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 1.018 | 0.072 | 14.140 | 0.0000000 |
| diff\_NBO\_4\_10 | 0.243 | 0.076 | 3.177 | 0.0032894 |
| Dist.10..8. | -0.398 | 0.086 | -4.642 | 0.0000561 |
| B1\_3\_9 | -0.285 | 0.082 | -3.456 | 0.0015675 |

### Model 4P

| formula | R.sq | Q.sq | MAE |
| --- | --- | --- | --- |
| ddg ~ NPA\_4 + NPA\_30 + Dist.10..8. + B5\_9\_3 | 0.678 | 0.534 | 0.380 |
| ddg ~ NPA\_30 + diff\_NBO\_4\_10 + diff\_NBO\_10\_7 + Dist.10..8. | 0.659 | 0.527 | 0.381 |

***Multicollinearity check***

|  | x |
| --- | --- |
| NPA\_4 | 1.648 |
| NPA\_30 | 1.401 |
| Dist.10..8. | 1.562 |
| B5\_9\_3 | 1.239 |

***Scaled Coefficients:***

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 1.018 | 0.072 | 14.222 | 0.0000000 |
| NPA\_4 | 0.395 | 0.093 | 4.242 | 0.0001857 |
| NPA\_30 | 0.299 | 0.086 | 3.485 | 0.0014901 |
| Dist.10..8. | -0.605 | 0.091 | -6.673 | 0.0000002 |
| B5\_9\_3 | -0.155 | 0.081 | -1.919 | 0.0642217 |