**Table ()**: Hammett correlations for the voltammetry reduction of para substituted (E)-1-(furan-2-yl)-3-phenylprop-2-ene-1-ones

on glassy carbon electrode in acetonitrile.

[substrate] = 10 mM supporting electrolyte = tetra butyl ammonium tetra fluoroborate

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | first peak | | | | | Second peak | | | |
|
| Quantity | Substituent | Sweep | correlation | slope | standard | φ | correlation | slope | standard | φ |
| correlated | constant | rate | coefficient |  | deviation |  | coefficient |  | deviation |  |
|  |  | (mV s-1) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Ep(V) | *σp* | 20 | 0.993 | 0.350±0.020 | 0.019 | -1.285±0.008 | 0.747 | 0.378±0.168 | 0.163 | -1.696±0.067 |
|  |  | 40 | 0.991 | 0.353±0.023 | 0.022 | -1.294±0.009 | 0.743 | 0.371±0.167 | 0.162 | -1.702±0.067 |
|  |  | 80 | 0.974 | 0.349±0.040 | 0.039 | -1.312±0.016 | 0.718 | 0.353±0.171 | 0.166 | -1.716±0.068 |
|  |  | 160 | 0.992 | 0.348±0.022 | 0.022 | -1.325±0.009 | 0.709 | 0.350±0.174 | 0.169 | -1.723±0.069 |
|  |  | 320 | 0.989 | 0.342±0.028 | 0.027 | -1.342±0.012 | 0.745 | 0.340±0.176 | 0.170 | -1.768±0.076 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | *σp / σp-* | 20 | 0.931 | 0.236±0.046 | 0.062 | -1.314±0.025 | 0.857 | 0.311±0.094 | 0.126 | -1.731±0.052 |
|  |  | 40 | 0.927 | 0.237±0.048 | 0.064 | -1.324±0.026 | 0.855 | 0.307±0.093 | 0.126 | -1.736±0.051 |
|  |  | 80 | 0.919 | 0.237±0.050 | 0.068 | -1.341±0.028 | 0.839 | 0.297±0.096 | 0.130 | -1.748±0.053 |
|  |  | 160 | 0.930 | 0.234±0.046 | 0.062 | -1.354±0.025 | 0.826 | 0.293±0.100 | 0.135 | -1.756±0.055 |
|  |  | 320 | 0.935 | 0.232±0.051 | 0.068 | -1.376±0.031 | 0.920 | 0.302±0.074 | 0.099 | -1.807±0.045 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | *σp+/ σp-* | 20 | 0.958 | 0.165±0.024 | 0.049 | -1.275±0.020 | 0.845 | 0.209±0.066 | 0.131 | -1.681±0.054 |
|  |  | 40 | 0.953 | 0.166±0.026 | 0.052 | -1.284±0.022 | 0.844 | 0.207±0.065 | 0.129 | -1.687±0.054 |
|  |  | 80 | 0.932 | 0.163±0.032 | 0.063 | -1.302±0.026 | 0.826 | 0.199±0.067 | 0.134 | -1.701±0.055 |
|  |  | 160 | 0.959 | 0.165±0.024 | 0.047 | -1.315±0.019 | 0.818 | 0.198±0.069 | 0.137 | -1.709±0.057 |
|  |  | 320 | 0.965 | 0.163±0.023 | 0.050 | -1.330±0.023 | 0.853 | 0.191±0.067 | 0.133 | -1.752±0.061 |
|  |  |  |  |  |  |  |  |  |  |  |
| Ep1/2 (V) | *σp* | 20 | 0.999 | 0.385±0.008 | 0.008 | -1.199±0.003 | 0.741 | 0.369±0.167 | 0.162 | -1.547±0.066 |
|  |  | 40 | 0.998 | 0.376±0.012 | 0.012 | -1.206±0.005 | 0.700 | 0.342±0.174 | 0.168 | -1.548±0.069 |
|  |  | 80 | 0.995 | 0.371±0.017 | 0.017 | -1.204±0.007 | 0.697 | 0.343±0.176 | 0.171 | -1.546±0.070 |
|  |  | 160 | 0.996 | 0.362±0.015 | 0.014 | -1.218±0.006 | 0.673 | 0.353±0.194 | 0.188 | -1.528±0.077 |
|  |  | 320 | 0.989 | 0.339±0.028 | 0.027 | -1.221±0.338 | 0.651 | 0.309±0.208 | 0.201 | -1.584±0.091 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | *σp / σp-* | 20 | 0.947 | 0.262±0.044 | 0.060 | -1.231±0.025 | 0.833 | 0.298±0.099 | 0.134 | -1.580±0.055 |
|  |  | 40 | 0.952 | 0.258±0.041 | 0.056 | -1.238±0.023 | 0.813 | 0.285±0.102 | 0.138 | -1.579±0.056 |
|  |  | 80 | 0.942 | 0.252±0.044 | 0.06 | -1.235±0.024 | 0.839 | 0.297±0.096 | 0.130 | -1.748±0.053 |
|  |  | 160 | 0.953 | 0.249±0.039 | 0.053 | -1.249±0.021 | 0.826 | 0.294±0.100 | 0.135 | -1.756±0.055 |
|  |  | 320 | 0.957 | 0.235±0.041 | 0.055 | -1.256±0.025 | 0.920 | 0.301±0.074 | 0.099 | -1.807±0.045 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | *σp+/ σp-* | 20 | 0.977 | 0.184±0.019 | 0.039 | -1.188±0.016 | 0.846 | 0.209±0.066 | 0.131 | -1.681±0.054 |
|  |  | 40 | 0.978 | 0.181±0.019 | 0.037 | -1.195±0.015 | 0.803 | 0.192±0.071 | 0.141 | -1.533±0.058 |
|  |  | 80 | 0.970 | 0.177±0.022 | 0.044 | -1.194±0.018 | 0.800 | 0.193±0.072 | 0.143 | -1.532±0.059 |
|  |  | 160 | 0.977 | 0.174±0.018 | 0.037 | -1.210±0.015 | 0.768 | 0.197±0.082 | 0.162 | -1.514±0.067 |
|  |  | 320 | 0.977 | 0.164±0.021 | 0.040 | -1.210±0.008 | 0.762 | 0.178±0.087 | 0.172 | -1.568±0.078 |