Table . Calculated branching ratios (%) in the p-tolyl + C3H4 reactions.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Products | | Collision Energy, kJ mol-1 | | | | | | | | | | | |
|  | | 12 | | 22 | | 32 | | 42 | | 47 | | 52 | |
| propyne | allene | propyne | allene | propyne | allene | propyne | allene | propyne | allene | propyne | allene |
| **p1** (methylindene) |  | 54.54 | 55.23 | 53.47 | 55.24 | 51.61 | 55.19 | 48.88 | 55.08 | 47.20 | 55.00 | 45.33 | 54.89 |
| **p2** (methylindene) |  | 44.16 | 44.72 | 43.20 | 44.62 | 41.60 | 44.49 | 39.32 | 44.32 | 37.93 | 44.21 | 36.42 | 44.11 |
| **p3** (methyl-3-phenyl-1-propyne) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 |
| **p4** (methylphenylallene) | | 0.33 | 0.01 | 0.84 | 0.04 | 1.72 | 0.08 | 3.00 | 0.16 | 3.78 | 0.21 | 4.65 | 0.27 |
| **p5** (methyl-1-phenyl-1-propyne) | | 0.98 | 0.04 | 2.49 | 0.10 | 5.06 | 0.22 | 8.79 | 0.41 | 11.06 | 0.53 | 13.56 | 0.67 |