reaction probability, P_r

The probability that a reaction occurs when two particles undergo a collision. If N_c is the number of collisions occurring in unit time, and N_r the number of reactions occurring in unit time: $P_r = \frac{N_r}{N_c}$.

Source:

PAC, 1996, *68*, 149 *(A glossary of terms used in chemical kinetics, including reaction dynamics (IUPAC Recommendations 1996))* on page 184