



$$Y = \frac{\text{Yield}}{A_{in}} = SC$$

Selectivity

Conversion

$$S = \frac{P_{out}}{A_{in} - A_{out}} = \frac{Y}{C}$$

$$C = \frac{A_{in} - A_{out}}{A_{in}} = \frac{Y}{S}$$

Conversion: The fraction of feed A that is converted.

Yield: The fraction of feed A converted to product.

Selectivity: The fraction of converted A that is product.