List of mathematical functions available in SAAM II (Numerical and Compartmental)

- **abs:** *absolute value of the expression*
- **lin**: linearly interpolates between the data values associated with the data name
- **log**: natural logarithm of the expression
- **log10**: logarithm to the base 10 of the expression
- **exp**: exponential function of the expression
- **sqrt**(arithmetic expression) square root of the expression, which must be non-negative
- **srand**(integer): provides a seed value for the rand function and yields a uniformly distributed random number between 0 and 1.0 (see below)
- **rand()**: a random number uniformly distributed between 0 and 1.0
- **acos***: angle in radians whose cosine is given by the expression*
- **alog10**: antilog to the base 10, 10expression
- **asin:** angle in radians whose sine is given by the expression
- **atan**: angle in radians whose tangent is given by the expression
- **cos**: cosine of the expression which must be in radians
- **int:** integer part of the expression as a real number
- **sin**: sine of the expression which must be in radians
- **tan**(arithmetic expression) tangent of the expression which must be in radians