How can I use the IMCSCH function in Google Sheets?

Authored by

stats writer

June 29, 2024

The IMCSCH function in Google Sheets is a useful tool for calculating the inverse hyperbolic cosecant of a given value. It can be used to quickly and accurately find the inverse hyperbolic cosecant of any number, saving time and effort in manual calculations. To use the IMCSCH function, simply enter the desired value into the formula and the function will return the corresponding inverse hyperbolic cosecant. This feature is especially helpful for mathematical and statistical analysis in various fields such as finance, engineering, and research. Overall, the IMCSCH function offers a convenient and efficient solution for computing inverse hyperbolic cosecant values in Google Sheets.

IMCSCH function

The IMCSCH function returns the hyperbolic cosecant of the given complex number.
For example, a given complex number "x+yi" returns "csch(x+yi)."

Parts of an IMCSCH function

`IMCSCH(number)`

Part	Description	Notes
`number`	The complex number for which you want the hyperbolic cosecant.	This can be either the result of the COMPLEX function, a real number interpreted as a complex number with imaginary parts equal to 0, or a string in the format "x+yi" where x and y are numeric.

Sample formulas

`IMCSCH(COMPLEX(4,6))`

`IMCSCH(4)`

`IMCSCH("2+3i")`

Notes

The `IMCSCH` function returns an error if the given number isn't a valid complex number.

Examples

	A	B
1	**Formula**	**Result**

2	`=IMCSCH(COMPLEX(4,1))`	0.0197797995721927-0.0308258875766998i
3	`=IMCSCH(3.5)`	0.0604498900091561
4	`=IMCSCH("3+2i")`	-0.0412009862885741-0.0904732097532074i

Related functions

IMCSC: The IMCSC function returns the cosecant of the given complex number.

IMSINH: The IMSINH function returns the hyperbolic sine of the given complex number.

COMPLEX: The COMPLEX function creates a complex number, given real and imaginary coefficients.