

PRICE, PRICEDISC, PRICEMAT - Calculate the value of stock in Excel

The following article details the meaning and usage of the PRICE, PRICEDISC and PRICEMAT functions - Calculate the value of stock in excel.

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1. The PRICE function

Description: Returns the value per \$ 100 of a security that pays periodic returns.

Syntax: = PRICE (settlement, maturity, rate, yld, redemption, frequency, basis) .

Inside:

- **settlement** : The **settlement** date of the securities is the date after the issue date of securities to be sold to buyers, which is a required parameter.

- **maturity** : The maturity or expiry date of a security, which is a mandatory parameter.

- **rate** : The annual interest rate of the security.

- **yld** : Annual profit of the security.

- **Redemption** : **Redemption** value of the securities is calculated in units of \$ 100.

- **frequency** : Number of interest payments per year, **frequency** = 1 -> paid 1 time per year, **frequency** = 2 -> annual interest payment 2 times, **frequency** = 4 -> annual interest payment 4 times.

- **basis** : The basis for counting days has the following values:

+ basis = 0 or skip: A month has 30 days, a year has 360 days based on US standards.

+ basis = 1: Number of days per month = number of actual days per month, number of days per year equals the number of actual days per year.

+ basis = 2: Number of days per month = number of actual days per month, number of days per year is 360 days.

+ basis = 3: Number of days per month = number of actual days per month, number of days per year = 365 days.

+ basis = 4: Number of days per month = 30 days, number of days per year 360 days according to European standards.

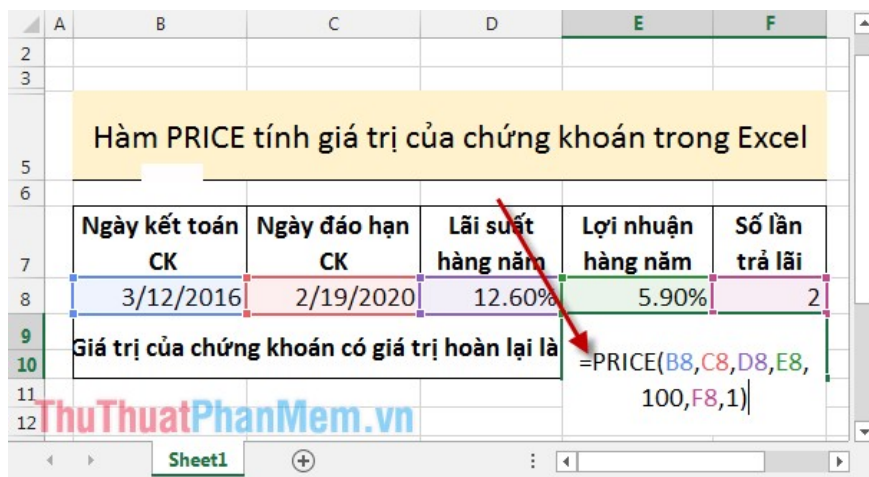
Attention:

- If settlement, maturity, frequency is the decimal function takes the integer value of those parameters.
- In case of invalid date data entry the function returns the #NUM! Error.
- If yld the function returns the #NUM! Error value
- If the value of frequency is not in the set {1, 2, 4} or the basis value is not in the set {0, 1, 2, 3, 4} the function returns the error value.
- Where settlement > maturity function returns the #NUM! Error value

For example:

Calculate the value of a security (based on \$ 100) knowing the stock settlement date is December 3, 2016, the stock expiry date is 2/19/2020, the annual interest rate is 12.6%, the annual profit is 5.9 %, pay interest twice a year, basis for calculating days is the actual number of days per month and the number of actual days per year.

In the cell to calculate enter the formula: = **PRICE (B8, C8, D8, E8, 100, F8,1)** .



Press **Enter** -> value of stock at face value of \$ 100 is:

Hàm PRICE tính giá trị của chứng khoán trong Excel

Ngày kết toán CK	Ngày đáo hạn CK	Lãi suất hàng năm	Lợi nhuận hàng năm	Số lần trả lãi
3/12/2016	2/19/2020	12.60%	5.90%	2
Chứng khoán có giá trị hoàn lại là				\$123.24

ThuThuatPhanMem.vn

2. PRICEDISC function

Description: The function performs the face value calculation of \$ 100 of a discounted stock.

Syntax: = PRICEDISC (settlement, maturity, discount, redemption, basis) .

Inside:

- **settlement** : The **settlement** date of the securities is the date after the issue date of securities to be sold to buyers, which is a required parameter.

- **maturity** : The maturity or expiry date of a security, which is a mandatory parameter.

- **discount** : Discount rate of the stock.

- **Redemption** : **Redemption** value of the security, calculated in units of \$ 100.

- **basis** : The basis for counting days has the following values:

+ basis = 0 or skip: A month has 30 days, a year has 360 days based on US standards.

+ basis = 1: Number of days per month = number of actual days per month, number of days per year equals the number of actual days per year.

+ basis = 2: Number of days per month = number of actual days per month, number of days per year is 360 days.

+ basis = 3: Number of days per month = number of actual days per month, number of days per year = 365 days.

+ basis = 4: Number of days per month = 30 days, number of days per year 360 days according to European standards.

Attention:

- The function is calculated by the formula:

$$PRICEDISC = redemption - discount \times redemption \times \frac{DSM}{B}$$

- If **settlement** , **maturity** , **frequency** is the decimal function takes the integer value of those parameters.
- In case of invalid date data entry the function returns the #NUM! Error.
- If **yld 0** or **rate 0** or **frequency 0** -> the function returns the #NUM! Error value
- If the value of **frequency** is not in the set {1, 2, 4} or the **basis** value is not in the set {0, 1, 2, 3, 4} the function returns the error value.
- Where **settlement** > **maturity** function returns the #NUM! Error value

For example:

Calculate the value of securities (based on \$ 100) knowing that the securities settlement date is December 3, 2016, the securities expiry date is February 2, 2020, the discount rate is 4.66% of the basis for calculating the date as a number. actual days per month and actual days per year.

Ngày kết toán CK	Ngày đáo hạn CK	Tỷ lệ chiết khấu	Giá trị hoàn lại	Cơ sở đếm ngày
3/12/2016	2/19/2020	4.66%	100	1
Giá trị của chứng khoán dựa trên mệnh giá 100\$ có giá trị hoàn lại là:			?	

In the cell to calculate enter the formula:

Ngày kết toán CK	Ngày đáo hạn CK	Tỷ lệ chiết khấu	Giá trị hoàn lại	Cơ sở đếm ngày
3/12/2016	2/19/2020	4.66%	100	1
Giá trị của chứng khoán dựa trên mệnh giá 100\$ đã chiết khấu là:			=PRICEDISC(B8,C8,D8,E8, F8)	

Pressing **Enter** results returns:

Ngày kết toán CK	Ngày đáo hạn CK	Tỷ lệ chiết khấu	Giá trị hoàn lại	Cơ sở đếm ngày
3/12/2016	2/19/2020	4.66%	100	1

Giá trị của chứng khoán dựa trên mệnh giá 100\$ đã chiết khấu là: **\$81.65**

3. PRICEMAT function

Description: The function calculates the value based on the \$ 100 face value of a security that pays interest on the maturity or expiry date of the security.

Syntax: = PRICEMAT (settlement, maturity, issue, rate, yld, basis) .

Inside:

- **settlement** : The **settlement** date of the securities is the date after the issue date of securities to be sold to buyers, which is a required parameter.

- **maturity** : The maturity or expiry date of a security, which is a mandatory parameter.

- **issue** : Date of issuing securities, is a required parameter.

- **rate** : The annual interest rate of the security.

- **yld** : Annual profit of the security.

- **basis** : The basis for counting days has the following values:

+ basis = 0 or skip: A month has 30 days, a year has 360 days based on US standards.

+ basis = 1: Number of days per month = number of actual days per month, number of days per year equals the number of actual days per year.

+ basis = 2: Number of days per month = number of actual days per month, number of days per year is 360 days.

+ basis = 3: Number of days per month = number of actual days per month, number of days per year = 365 days.

+ basis = 4: Number of days per month = 30 days, number of days per year 360 days according to European standards.

Attention:

- Calculation formula of the function:

$$PRICEMAT = \frac{100 + \left(\frac{DIM}{B} \times rate \times 100\right)}{1 + \left(\frac{DSM}{E} \times yld\right)} - \left(\frac{A}{E} \times rate \times 100\right)$$

- If **settlement** , **maturity** , **frequency** is the decimal function takes the integer value of those parameters.
- In case of invalid date data entry the function returns the #NUM! Error.
- If **yld 0** or **rate 0** or **frequency 0** -> the function returns the #NUM! Error value
- If the value of **frequency** is not in the set {1, 2, 4} or the **basis** value is not in the set {0, 1, 2, 3, 4} the function returns the error value.
- Where **settlement** > **maturity** function returns the #NUM! Error value

For example:

Calculate the value of a securities that knows the securities settlement date is December 3, 2016, the expiry date is February 2, 2020, the issue date is February 2, 2014, the annual interest rate is 12.8%, interest. The annual profit earned is 6.9% of the basis for calculating days as the actual number of days per month and the number of actual days per year.

The screenshot shows an Excel spreadsheet with the following data:

	B	C	D	E	F	G
5	Hàm PRICEDISC tính giá trị của chứng khoán trong Excel					
6						
7	Ngày kết toán CK	Ngày đáo hạn CK	Ngày phát hành CK	Lãi suất hàng năm	Lợi nhuận	Cơ sở đếm
8	3/12/2016	2/19/2020	2/19/2014	12.80%	6.90%	1
9	Giá trị của chứng khoán dựa trên mệnh giá 100\$ tính tới ngày đáo hạn là:			?		
10						
11						

In the cell to calculate enter the formula: = **PRICEMAT (B8, C8, D8, E8, F8, G8)** .

Hàm PRICEDISC tính giá trị của chứng khoán trong Excel						
Ngày kết toán CK	Ngày đáo hạn CK	Ngày phát hành CK	Lãi suất hàng năm	Lợi nhuận	Cơ sở đếm	
3/12/2016	2/19/2020	2/19/2014	12.80%	6.90%	1	
Giá trị của chứng khoán dựa trên mệnh giá 100\$ tính tới ngày đáo hạn là:			=PRICEMAT(B8,C8,D8,E8,F8,G8)			

Pressing **Enter** results returns:

Hàm PRICEDISC tính giá trị của chứng khoán trong Excel						
Ngày kết toán CK	Ngày đáo hạn CK	Ngày phát hành CK	Lãi suất hàng năm	Lợi nhuận	Cơ sở đếm	
3/12/2016	2/19/2020	2/19/2014	12.80%	6.90%	1	
Giá trị của chứng khoán dựa trên mệnh giá 100\$ tính tới ngày đáo hạn là:			\$112.64			

The above is a detailed guide of meaning and usage of securities value calculation functions.

Good luck!

You finished reading the article "**PRICE, PRICEDISC, PRICEMAT - Calculate the value of stock in Excel**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.