

# How to calculate the total value based on multiple conditions in Excel

To calculate conditional sum in Excel, it is impossible not to mention the special calculation function that is SUMIF and SUMIFS function. Software Tips will guide how to use conditional sum function. Please follow the following article.

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## Sumif function - Syntax and usage

Function structure: = SUMIF (range, criteria, [sum\_range])

Inside:

1. **SUMIF** : The function name used to sum values based on **criteria** .
2. **Range** : The area of the cells evaluated according to the condition you given.
3. **Criteria** : The condition you put in to sum.
4. **Sum\_range** : Optional value, sum cells if satisfying conditions, if no **sum\_range** is entered , Excel will understand the area to be summed is the range of cells evaluated under **range** condition .

Usage and examples:

For example, you have the following worksheet and need to add the total number of cement (column E) that is transported by car (Column F).

You use the following formula: =SUMIF (F2: F23, "car", E2: E23) and get the following result:

A	B	C	D	E	F	G	H	I	J
MIỀN REGION	NGÀY NHẬN HÀNG DATE	MÃ SỐ NHẬN HÀNG SALES ORDER	XI MĂNG XÃ PCB&O BULK CEMENT	TỔNG QUANT XI MĂNG XÃ TOTAL OF BULK CEMENT	PHƯƠNG TIỆN LICENSE PLATE	NƠI NHẬN HÀNG DELIVERY PLACE		SUM IF	
1	HCMC	06-09-2018	31280522	32.16	ô tô	HIEP PHUOC		Tính tổng số xi măng được chở bằng phương tiện ô tô	347.34
3	HCMC	06-09-2018	31280523	33.98	ô tô	HIEP PHUOC			
4	HCMC	06-09-2018	31280509	31.44	ô tô	HIEP PHUOC			
5	HCMC	06-09-2018	31280510	30.16	tàu hỏa	HIEP PHUOC			
6	HCMC	06-09-2018	31280647	34.06	tàu hỏa	HIEP PHUOC			
7	HCMC	06-09-2018	31280511	31.58	ô tô	HIEP PHUOC			
8	HCMC	07-09-2018	31280663	30.73	ô tô	HIEP PHUOC			
9	HCMC	07-09-2018	31280512	32.21	tàu hỏa	HIEP PHUOC			
10	HCMC	08-09-2018	31280916	33.60	tàu hỏa	HIEP PHUOC			
11	HCMC	08-09-2018	31280836	32.75	tàu hỏa	HIEP PHUOC			
12	HCMC	08-09-2018	31280837	31.46	ô tô	HIEP PHUOC			
13	HCMC	09-09-2018	31281018	30.21	tàu hỏa	HIEP PHUOC			
14	HCMC	09-09-2018	31280629	31.23	tàu hỏa	HIEP PHUOC			
15	HCMC	15-09-2018	31281933	31.44	tàu hỏa	HIEP PHUOC			
16	HCMC	15-09-2018	31281935	30.39	tàu hỏa	HIEP PHUOC			
17	HCMC	16-09-2018	31281934	31.97	ô tô	HIEP PHUOC			
18	HCMC	16-09-2018	31281936	30.41	ô tô	HIEP PHUOC			
19	HCMC	18-09-2018	31282023	32.02	tàu hỏa	HIEP PHUOC			
20	HCMC	18-09-2018	31282024	31.33	ô tô	HIEP PHUOC			
21	HCMC	18-09-2018	31282025	31.53	ô tô	HIEP PHUOC			
22	HCMC	19-09-2018	31282026	31.80	tàu hỏa	HIEP PHUOC			
23	HCMC	21-09-2018	31282936	30.75	ô tô	HIEP PHUOC			

## Sumifs function - Syntax and usage

Function structure: =SUMIFS (sum\_range, criteria\_range1, criteria1, [criter\_range2, criteria2], .)

Inside:

1. **SUMIFS** : Function name used to sum values based on multiple **criteria1, criteria2... criteria**.
2. **Sum\_range** : Required value. Sum cells if the condition is met.
3. **Criteria\_range1** : Required value. The area of the cells is evaluated according to the condition that you give.
4. **Criteria1** : Required value. The first condition must meet to sum.
5. **Criteria\_range2** : Optional value. The area of the cells is evaluated according to the condition that you give.
6. **Criteria2** : Optional value. The th condition must meet to sum.

Note that the SUMIFS function operates in the logical AND expression, that is, all the conditions must be met in order to sum the cell.

Now let's see how the SUMIFS function works with the two conditions in the following example:

J2    =SUMIFS(E2:E23,B2:B23,"07-09-2018",F2:F23,"ô tô")

A	B	C	D	E	F	G	H	I	J	K
MIEN REGION	NGAY NHAN HANG DATE	MA SO NHAN HANG SALES ORDER	XI MANG XA PCB80 BULK CEMENT	TONG CONG XI MANG XA TOTAL OF BULK CEMENT	PHUONG TIEN LICENSE PLATE	NOI NHAN HANG DELIVERY PLACE				
1	HCMC	06-09-2018	31280522	32.16	32.16	ô tô	HIEP PHUOC	SUM IF		
2	HCMC	06-09-2018	31280523	33.98	33.98	ô tô	HIEP PHUOC	Tinh tong so xi mang được chur bang phuong tien ô tô trong ngày 07-09-2018	30.73	
3	HCMC	06-09-2018	31280509	31.44	31.44	ô tô	HIEP PHUOC			
4	HCMC	06-09-2018	31280510	30.16	30.16	tàu hỏa	HIEP PHUOC			
5	HCMC	06-09-2018	31280647	34.06	34.06	tàu hỏa	HIEP PHUOC			
6	HCMC	06-09-2018	31280511	31.58	31.58	ô tô	HIEP PHUOC			
7	HCMC	07-09-2018	31280653	30.73	30.73	ô tô	HIEP PHUOC			
8	HCMC	07-09-2018	31280512	32.21	32.21	tàu hỏa	HIEP PHUOC			
9	HCMC	08-09-2018	31280916	33.60	33.60	tàu hỏa	HIEP PHUOC			
10	HCMC	08-09-2018	31280856	32.75	32.75	tàu hỏa	HIEP PHUOC			
11	HCMC	08-09-2018	31280857	31.46	31.46	ô tô	HIEP PHUOC			
12	HCMC	09-09-2018	31281018	30.21	30.21	tàu hỏa	HIEP PHUOC			
13	HCMC	09-09-2018	31280629	31.23	31.23	tàu hỏa	HIEP PHUOC			
14	HCMC	15-09-2018	31281933	31.44	31.44	tàu hỏa	HIEP PHUOC			
15	HCMC	15-09-2018	31281935	30.39	30.39	tàu hỏa	HIEP PHUOC			
16	HCMC	16-09-2018	31281934	31.97	31.97	ô tô	HIEP PHUOC			
17	HCMC	16-09-2018	31281936	30.41	30.41	ô tô	HIEP PHUOC			
18	HCMC	18-09-2018	31282023	32.02	32.02	tàu hỏa	HIEP PHUOC			
19	HCMC	18-09-2018	31282024	31.33	31.33	ô tô	HIEP PHUOC			
20	HCMC	18-09-2018	31282025	31.53	31.53	ô tô	HIEP PHUOC			
21	HCMC	19-09-2018	31282026	31.80	31.80	tàu hỏa	HIEP PHUOC			
22	HCMC	21-09-2018	31282936	30.75	30.75	ô tô	HIEP PHUOC			
23										
24										

Formulated as spreadsheets, Dexterity Software requirements calculated total cement production by means **automobiles** of the day **07-09-2018** . And Excel finds a unique value that satisfies the two requirements and returns a value of **30.73** .

## Notes when using the SUMIF and SUMIFS functions

**Note 1** : Logical expressions compared to operators must be enclosed in quotation marks "".

For example, with the same worksheet above, you need to sum the cells with values ??greater than or equal to 32, the formula will be applied as follows:

J2    =SUMIF(E2:E23,">=32")

A	B	C	D	E	F	G	H	I	J	K
MIEN REGION	NGAY NHAN HANG DATE	MA SO NHAN HANG SALES ORDER	XI MANG XA PCB80 BULK CEMENT	TONG CONG XI MANG XA TOTAL OF BULK CEMENT	PHUONG TIEN LICENSE PLATE	NOI NHAN HANG DELIVERY PLACE				
1	HCMC	06-09-2018	31280522	32.16	32.16	ô tô	HIEP PHUOC	SUM IF		
2	HCMC	06-09-2018	31280523	33.98	33.98	ô tô	HIEP PHUOC	Tinh tong so lượng xi măng mà giá trị lớn hơn hoặc bằng 32	230.78	
3	HCMC	06-09-2018	31280509	31.44	31.44	ô tô	HIEP PHUOC			
4	HCMC	06-09-2018	31280510	30.16	30.16	tàu hỏa	HIEP PHUOC			
5	HCMC	06-09-2018	31280647	34.06	34.06	tàu hỏa	HIEP PHUOC			
6	HCMC	06-09-2018	31280511	31.58	31.58	ô tô	HIEP PHUOC			
7	HCMC	07-09-2018	31280653	30.73	30.73	ô tô	HIEP PHUOC			
8	HCMC	07-09-2018	31280512	32.21	32.21	tàu hỏa	HIEP PHUOC			
9	HCMC	08-09-2018	31280916	33.60	33.60	tàu hỏa	HIEP PHUOC			
10	HCMC	08-09-2018	31280856	32.75	32.75	tàu hỏa	HIEP PHUOC			
11	HCMC	08-09-2018	31280857	31.46	31.46	ô tô	HIEP PHUOC			
12	HCMC	09-09-2018	31281018	30.21	30.21	tàu hỏa	HIEP PHUOC			
13	HCMC	09-09-2018	31280629	31.23	31.23	tàu hỏa	HIEP PHUOC			
14	HCMC	15-09-2018	31281933	31.44	31.44	tàu hỏa	HIEP PHUOC			
15	HCMC	15-09-2018	31281935	30.39	30.39	tàu hỏa	HIEP PHUOC			
16	HCMC	16-09-2018	31281934	31.97	31.97	ô tô	HIEP PHUOC			
17	HCMC	16-09-2018	31281936	30.41	30.41	ô tô	HIEP PHUOC			
18	HCMC	18-09-2018	31282023	32.02	32.02	tàu hỏa	HIEP PHUOC			
19	HCMC	18-09-2018	31282024	31.33	31.33	ô tô	HIEP PHUOC			
20	HCMC	18-09-2018	31282025	31.53	31.53	ô tô	HIEP PHUOC			
21	HCMC	19-09-2018	31282026	31.80	31.80	tàu hỏa	HIEP PHUOC			
22	HCMC	21-09-2018	31282936	30.75	30.75	ô tô	HIEP PHUOC			
23										
24										

**Note 2** : Same as above if you find the condition by date or text format, the condition must be enclosed in quotation marks "".

For example, you need to calculate the total amount of goods exported on September 18, 2018.

Formula bar: `=SUMIF(B2:B23,"18-09-2018",E2:E23)`

A	B	C	D	E	F	G	H	I	J
MIEN REGION	NGAY NHAN HANG DATE	MA SO NHAN HANG SALES ORDER	XI MANG XA PCBSO BULK CEMENT	TONG XI MANG XA TOTAL OF BULK CEMENT	PHUONG TIEN LICENSE PLATE	HANG DELIVERY PLACE			
1									
2	HCMC	06-09-2018	31280522	32.16	32.16	0 to	HIEP PHUOC	SUM IF	
3	HCMC	06-09-2018	31280523	33.98	33.98	0 to	HIEP PHUOC	Tinh tong so luong hang xuất trong ngày 18-09-2018	94.88
4	HCMC	06-09-2018	31280509	31.44	31.44	0 to	HIEP PHUOC		
5	HCMC	06-09-2018	31280510	30.16	30.16	tàu hỏa	HIEP PHUOC		
6	HCMC	06-09-2018	31280647	34.06	34.06	tàu hỏa	HIEP PHUOC		
7	HCMC	06-09-2018	31280511	31.58	31.58	0 to	HIEP PHUOC		
8	HCMC	07-09-2018	31280660	30.75	30.75	0 to	HIEP PHUOC		
9	HCMC	07-09-2018	31280512	32.21	32.21	tàu hỏa	HIEP PHUOC		
10	HCMC	08-09-2018	31280916	33.60	33.60	tàu hỏa	HIEP PHUOC		
11	HCMC	08-09-2018	31280856	32.75	32.75	tàu hỏa	HIEP PHUOC		
12	HCMC	08-09-2018	31280857	31.46	31.46	0 to	HIEP PHUOC		
13	HCMC	09-09-2018	31281018	30.21	30.21	tàu hỏa	HIEP PHUOC		
14	HCMC	09-09-2018	31280629	31.23	31.23	tàu hỏa	HIEP PHUOC		
15	HCMC	15-09-2018	31281933	31.44	31.44	tàu hỏa	HIEP PHUOC		
16	HCMC	15-09-2018	31281935	30.39	30.39	tàu hỏa	HIEP PHUOC		
17	HCMC	16-09-2018	31281934	31.97	31.97	0 to	HIEP PHUOC		
18	HCMC	16-09-2018	31281936	30.41	30.41	0 to	HIEP PHUOC		
19	HCMC	18-09-2018	31282023	32.02	32.02	tàu hỏa	HIEP PHUOC		
20	HCMC	18-09-2018	31282024	31.33	31.33	0 to	HIEP PHUOC		
21	HCMC	18-09-2018	31282025	31.53	31.53	0 to	HIEP PHUOC		
22	HCMC	19-09-2018	31282026	31.80	31.80	tàu hỏa	HIEP PHUOC		
23	HCMC	21-09-2018	31282936	30.75	30.75	0 to	HIEP PHUOC		
24									

Above are instructions and some specific examples when using SUMIFF and SUMIFS functions to calculate the total value on many conditions.

Good luck!

You finished reading the article "**How to calculate the total value based on multiple conditions 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.