

Instructions

Answer each of the clues in the quiz by starting in the square marked 1 at the centre of the grid and writing your answer in a clockwise spiral. The last letter of each answer is the first letter of the next. To help you arrows are given and you must not cross over the bold lines. Also the number of letters to each answer is given in brackets.

→			15		L				
Z	→	10	P					11	↓
		6	→						↓
14	G		→		3			↓	
			2	↑	→			N	12
		Q			1			7	
			↑				4		
		5							
	M						←		
Y	↑	9			L		8		A
↑		13			A				←

1. The conversion of sugar into alcohol (12)
2. The number of atoms in a molecule of ethanol (4)
3. Raw material for the large scale industrial manufacture of ethanol (6)
4. The correct chemical name for common alcohol (7)
5. The state of methanol at room temperature and pressure (6)
6. How you can separate mixtures of alcohols (10)
7. The -OH in alcohols is called the functional (5)
8. This product is used to make things shine and often contains alcohol as a solvent (6)
9. Alcohol are a series as they can be represented by a general formula
10. Alcoholic drinks with a high proportion of alcohol (7)
11. This is added to ethene at 300°C with a phosphoric acid catalyst to make alcohol (5)
12. This is formed by oxidising methanol (9,4)
13. To remove water e.g. from ethanol to form ethane (9)
14. Yeast contains these biological catalysts which helps convert sugar into alcohol (7)
15. A use for alcohols (7)

Answers

y	m	e	¹⁵ S	o	l	v	e	n	t
z	u	¹⁰ s	p	i	r	i	t	¹¹ S	t
n	o	⁶ D	i	s	t	i	l	l	e
¹⁴ E	g	i	i	n	³ E	t	h	i	a
t	o	u	² N	r	m	e	e	n	¹² M
a	l	q	o	e	¹ F	n	n	⁷ G	e
r	o	i	i	t	a	t	⁴ E	r	t
d	m	⁵ L	o	n	a	h	t	o	h
y	o	⁹ H	s	i	l	o	⁸ P	u	a
h	e	¹³ D	i	c	a	c	i	o	n