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## Quimica Organica Vollhardt 5 Edicion.101

A: You can use. to match any character not in a [], and a ^ to match the beginning of a line.

```
%home_page%['^']+_[0-9]{4}$' In my tests (echo 10 20 | egrep -o
```

```
'^%home_page%['^']+_[0-9]{4}$' | sed's/%home_page%['^']*/%home_page%['$']/):
```

```
%home_page%['^']+_[0-9]{4} # => "%home_page%['^']+_[0-9]{4}" # =>
```

```
%home_page%['^']+_[0-9]{4}" # => "12"
```

Liquid Crystal Display (LCD) devices are becoming increasingly popular in the field of instrumentation and view displays. LCDs are widely used in, for example, medical imaging, military and navigation systems, hand-held computers, digital watches, digital cameras, and televisions. In an LCD device, a display panel is formed of a set of liquid crystal molecules and polarizers attached to the respective sides of the liquid crystal molecules to generate a voltage difference when light is applied to the display panel. When no light is applied, such as when the device is in the “off” state, the molecules are oriented in the direction of their equilibrium positions, and therefore are neither transparent nor light absorbing. However, when light is applied to the display panel, the molecules are oriented, and therefore can either be transparent or light absorbing. The contrast of an LCD device is dependent upon the voltage difference between the transparent portions of the molecules and the light absorbing portions of the molecules. Therefore, the more light is absorbed, the greater the voltage difference generated and the greater the contrast. An LCD device is constructed with two thin glass plates called substrates separated by spacers. Spacers provide a defined distance between the substrate and a liquid crystal material coated on the substrate. Spacer volumes are carefully optimized to minimize sensitivity to surface irregularities and non-uniformities of the liquid crystal material. Present manufacturing process for LCD displays use a “sandwich” approach, where the liquid crystal material is sandwiched between two glass substrates, which are then aligned and attached with alignment layers



