
	<p><i>Flower Chemistry</i></p>	
---	--------------------------------	---

Pelargonium, *Pelargonium x hortorum*, Garden geraanium

Author: **Martin Ling**

23. December 2010

School: **Orissaare gymnasium**

Country: **Saaremaa, Estonia**

Tutor: **Katrin Jõgi**

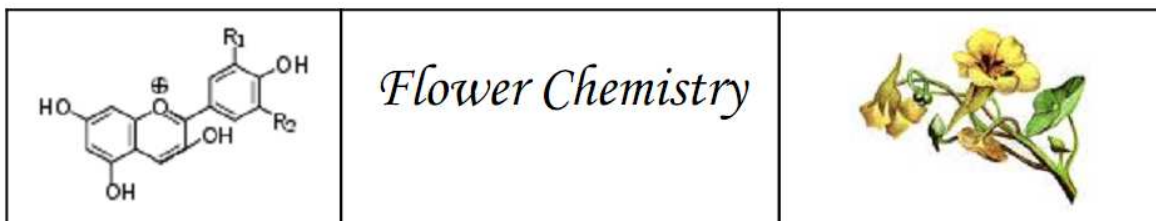
Necessary Chemicals	Sodium hydroxide (NaOH), Hydrogen chloride (HCl), distilled water
Necessary lab gear	3 test tubes, stand, alcohol lamp, porcelain bowl

1. Botanical information

<p>Scientific classification</p> <p>Kingdom: Plantae</p> <p>Division: Magnoliophyta</p> <p>Class: Magnoliopsida</p> <p>Order: Geraniales</p> <p>Family: Geraniaceae</p> <p>Genus: <i>Pelargonium</i> L'Hér.</p>	
--	--

2. Material and Method

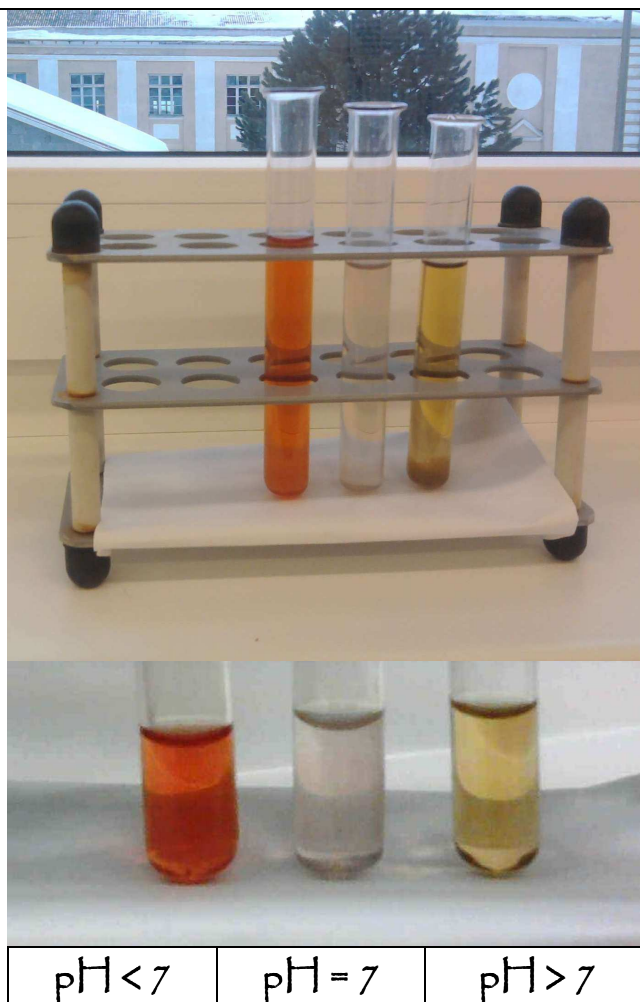
The blossoms were boiled in water about 5 minutes. After that I let the proof cool. Indicator was tested in distilled water, HCl and NaOH.



3. Results

The indicator solution of *Pelargonium x hortorum* pH was 5.

- If we added the prepared indicator on HCl, the indicator solution colour changed into red.
- When we added the indicator in distilled water, the solution turned into colorless.
- Indicator in NaOH, the solution colour changed into brown-green.



4. Discussion

The *Pelargonium x hortorum* can be used as indicator, because the color differences on different pH levels are clear.

5. Links and literature

<http://en.wikipedia.org/wiki/Pelargonium>