

# Specification

## Technical Data Sheet

<b>Product Name</b>	Bromothymol Blue
---------------------	------------------

<b>Product No</b>	35458451
-------------------	----------

<b>CAS Number</b>	76-59-5
-------------------	---------

<b>Storage Temperature</b>	Ambient
----------------------------	---------

<b>Molecular Weight</b>	624.38
-------------------------	--------

### Specification

<b>Appearance</b>	Purple/ brown powder
-------------------	----------------------

<b>Loss on Drying</b>	≤ 3%
-----------------------	------

<b>Absorptivity (E 1% in 1cm cell at λ<sub>max</sub>, pH 5.8)</b>	260 - 300
---	-----------

<b>Absorptivity (E 1% in 1cm cell at λ<sub>max</sub>, pH 7.6)</b>	470 - 520
---	-----------

<b>Dye Content</b>	≥95%
--------------------	------

<b>Solubility at 0.1% (95% Ethanol)</b>	Clear Solution
---	----------------

## Specification

---

**Transition Range** pH 5.8 - 7.6 Yellow - Blue

---

**Wavelength of maximum absorption (pH 7.6)  $\lambda_{2\text{ max}}$**  615 - 618 nm

---

**Wavelength of maximum absorption (pH 5.8)  $\lambda_{1\text{ max}}$**  430 - 435 nm

---