

# индикатор рН (тверд е)

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Ярославль (4852)69-52-93

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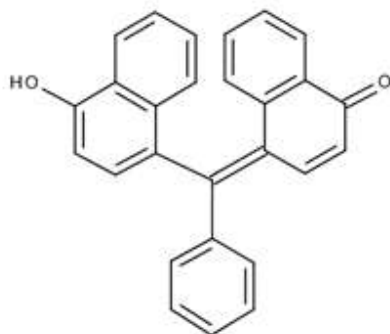
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# 1-NAPHTHOLBENZEIN (PH INDICATOR)

Used as an indicator 0.1g in 100 ml 2-propanol. a-Naphtholbenzein; 4,4'-(a-Hydroxybenzylidene)di-1-naphthol; p-naphtholbenzein

|                   |            |                  |                 |
|-------------------|------------|------------------|-----------------|
| Product Code.     | 01781      | Grade            | Indicator grade |
| Purity            |            | CAS No.          | 145-50-6        |
| Molecular Formula | C27H18O2   | Molecular Weight | 374.44          |
| H.S.Code          | 2914.50000 | Shelf Life       | 60 Months       |



## Physical Properties

|                                    |       |                |                    |                                |                    |
|------------------------------------|-------|----------------|--------------------|--------------------------------|--------------------|
| Physical state at 20 °C            | Solid | Colour         | Dark reddish black | Odour                          | Odorless           |
| Melting point/ Freezing point [°C] | 185°C | Vapour density | 12.9               | Solubility in water [% weight] | Insoluble in water |

## Specification

|   |   |
|---|---|
| Appearance  | Dark red to red-brown to brown-black to orange-brown powder     |
| Visual transition interval                            | Yellow to green pH 8.2 (yellow to orange) to pH 10 (green-blue) |
| Absorption maxima in acetic perchloric acid 0.1 mol/L | 622 - 626 nm  |

## Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

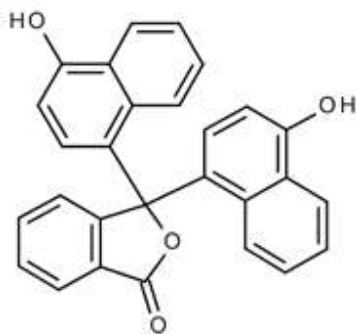
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

# 1-NAPHTHOLPHTHALEIN (PH INDICATOR)

## 1-naphtholphthalein

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01782A     | Grade            |           |
| Purity            |            | CAS No.          | 596-01-0  |
| Molecular Formula | C28H18O4   | Molecular Weight | 418.45    |
| H.S.Code          | 3204.90000 | Shelf Life       | 60 Months |



## Physical Properties

|   |              |                |              |                                |                      |
|---|--------------|----------------|--------------|--------------------------------|----------------------|
| Physical state at 20 °C                               | Solid        | Colour         | Black powder | Odour                          | Characteristic odour |
| Melting point/ Freezing point [°C]                    | 238 - 240 °C | Vapour density | 14.44        | Solubility in water [% weight] | Insoluble in water   |
| Partition coefficient Log Pow octanol / water at 20°C | 5.41         |                |              |                                |                      |

## Packaging

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## Specification

|                                   |   |
|-----------------------------------|---|
| Appearance                        | Light Pink to Beige to Red-Brown Powder |
| Loss on drying (at 105°C)         | Max 5%                                  |
| pH transition range (7.1 - 8.3)   | Brownish pink to blue                   |
| Absorption maxima (Buffer pH 7.1) | 471 - 485 nm                            |
| Absorption maxima (buffer pH 8.3) | 649 - 654 nm                            |

## Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

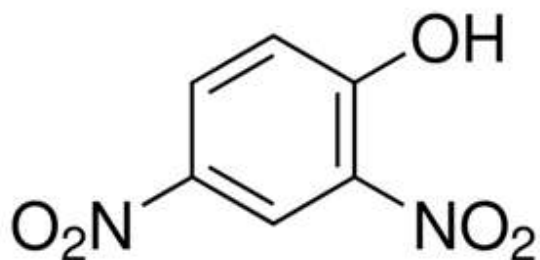
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

## 2,4-DINITROPHENOL INDICATOR 99% AR

Uncoupler of oxidative phosphorylation used as reference substance in chromatography of DNP amino acids. a-Dinitrophenol, 2,4-DNP, DNP ; ph 2.8 - 4.7 Colourless to Yellow

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01062      | Grade            | AR        |
| Purity            | 99%        | CAS No.          | 51-28-5   |
| Molecular Formula | C6H4N2O5   | Molecular Weight | 184.10    |
| H.S.Code          | 2908.99900 | Shelf Life       | 60 Months |



### Physical Properties

|                                    |                            |                |               |                 |              |
|------------------------------------|----------------------------|----------------|---------------|-----------------|--------------|
| Physical state at 20 °C            | Solid                      | Colour         | Yellow powder | Odour           | Sweet, musty |
| Melting point/ Freezing point [°C] | 108 - 112 °C               | Vapour density | 6.35          | Density [g/cm3] | 1.683        |
| Solubility in water [% weight]     | Partially soluble in water |                |               |                 |              |

### Packaging

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### Specification

|                                    |  |
|------------------------------------|--|
| Appearance                         | Yellow colored powder                    |
| Assay (acidimetric)                | Min 99.0%                                |
| Melting point (after drying)       | 110 - 113 °C                             |
| pH transition range (pH 2.8 - 4.0) | Slightly greenish-yellow-greenish-yellow |
| Water (H2O)                        | About 30%                                |

## Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1320

IMCO Class No.: 4.1,6.1

Packing Group: I

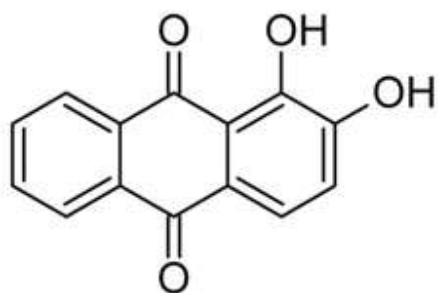
Hazardous Statement: H301-H311-H331-H373-H400

Precaution Statement: P261-P273-P280-P301 + P310-P311

## ALIZARINE AR

C.I.No.58000 Alizarin Red is used in a biochemical assay to determine, quantitatively by colorimetry, the presence of calcific deposition by cells of an osteogenic lineage. 1,2-Dihydroxyanthraquinone, Mordant Red 11

|                   |   |                  |           |
|-------------------|---|------------------|-----------|
| Product Code.     | 00097   | Grade            | AR        |
| Purity            | 97%   | CAS No.          | 72-48-0   |
| Molecular Formula | C <sub>14</sub> H <sub>8</sub> O <sub>4</sub> | Molecular Weight | 240.22    |
| H.S.Code          | 2914.79900                                    | Shelf Life       | 60 Months |



## Physical Properties

|                                    |              |                    |               |                                |                            |
|------------------------------------|--------------|--------------------|---------------|--------------------------------|----------------------------|
| Physical state at 20 °C            | Solid        | Colour             | Orange powder | pH value                       | 5 - 7.2                    |
| Melting point/ Freezing point [°C] | 279 - 283 °C | Boiling point [°C] | 430°C         | Solubility in water [% weight] | Sparingly soluble in water |

## Packaging



## Specification

|   |                          |
|---|--------------------------|
| Appearance  | Orange colored powder    |
| pH 5.5- 6.8   | Yellow to reddish-violet |
| Absorption maxima in NaOH 0.01 mol/L (I <sub>max</sub> 1) | 564 - 568 nm             |

|   |              |
|---|--------------|
| Absorption maxima in NaOH 0.01 mol/L (I <sub>max2</sub> ) | 605 - 609 nm |
| Absorptivity (A 1%/1cm; at I <sub>max2</sub> )            | Min 525      |
| Sulphated ash   | Max 1%       |
| Loss on drying  | Max 5%       |
| Absorptivity (A 1%/1cm; at I <sub>max1</sub> )            | Min 625      |

## Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H302-H319

Precaution Statement: H302-H319



# ALKALI BLUE INDICATOR

(C.I. No. 42750)

|                   |   |                  |           |
|-------------------|---|------------------|-----------|
| Product Code.     | 00102   | Grade            |           |
| Purity            | Min. 50%  | CAS No.          | 1324-76-1 |
| Molecular Formula | C <sub>37</sub> H <sub>29</sub> N <sub>3</sub> O <sub>3</sub> S | Molecular Weight | 595.73    |
| H.S.Code          | 32129090.00000  | Shelf Life       |           |

## Physical Properties

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## Packaging



## Specification

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## Safety Information and Hazard Symbols

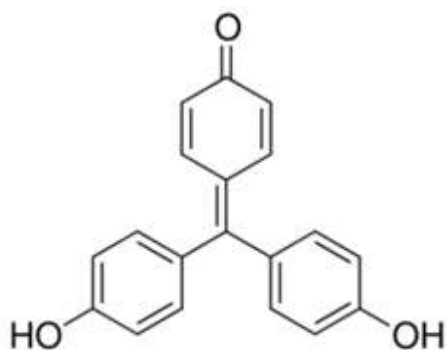
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# AURIN (P-ROSOLIC ACID)

p-ROSOLIC ACID INDICATOR C.I.No.43800

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 00317      | Grade            |           |
| Purity            |            | CAS No.          | 603-45-2  |
| Molecular Formula | C19H14O3   | Molecular Weight | 290.32    |
| H.S.Code          | 3212.90200 | Shelf Life       | 60 Months |



## Physical Properties

|                                |                     |        |                 |                                    |       |
|--------------------------------|---------------------|--------|-----------------|------------------------------------|-------|
| Physical state at 20 °C        | Solid               | Colour | Red crystalline | Melting point/ Freezing point [°C] | 308°C |
| Solubility in water [% weight] | Negligible (< 0.1%) |        |                 |                                    |       |

## Packaging



## Specification

|                     |                         |
|---------------------|-------------------------|
| Appearance          | Dark red colored powder |
| pH transition range | 5.0 - 6.8 Yellow - pink |

## Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

# BRILLIANT YELLOW

C.I.No.24890 It is used as an azo dye. Direct Yellow 4

|                   |   |                  |           |
|-------------------|---|------------------|-----------|
| Product Code.     | 00479   | Grade            |           |
| Purity            |   | CAS No.          | 3051-11-4 |
| Molecular Formula | C <sub>26</sub> H <sub>18</sub> N <sub>4</sub> Na <sub>2</sub> O <sub>8</sub> S | Molecular Weight | 624.56    |
| H.S.Code          | 3204.90000  | Shelf Life       | 60 Months |

## Physical Properties

|                                |                            |        |                     |       |          |
|--------------------------------|----------------------------|--------|---------------------|-------|----------|
| Physical state at 20 °C        | Solid                      | Colour | Brown colour powder | Odour | Odorless |
| Solubility in water [% weight] | Partially soluble in water |        |                     |       |          |

## Packaging



## Specification

|            |                        |
|------------|------------------------|
| Appearance | A brown colored powder |
| pH         | 7.4 - 8.6              |

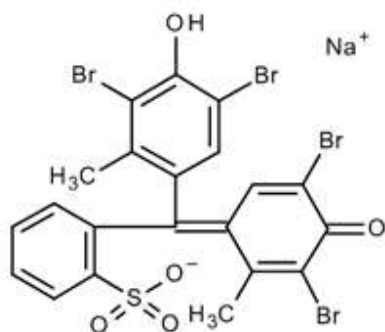
## Safety Information and Hazard Symbols

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# BROMO CRESOL GREEN SODIUM SALT (WATER SOLUBLE)

Water soluble 3',3',5',5'-Tetrabromo-m-cresolsulphonphthalein sodium salt Bromo Cresol Blue Sodium Salt

|                   |  |                  |            |
|-------------------|--|------------------|------------|
| Product Code.     | 00496  | Grade            |            |
| Purity            |  | CAS No.          | 62625-32-5 |
| Molecular Formula | C <sub>21</sub> H <sub>13</sub> Br <sub>4</sub> NaO <sub>5</sub> S | Molecular Weight | 720.02     |
| H.S.Code          | 2934.99000   | Shelf Life       | 60 Months  |



## Physical Properties

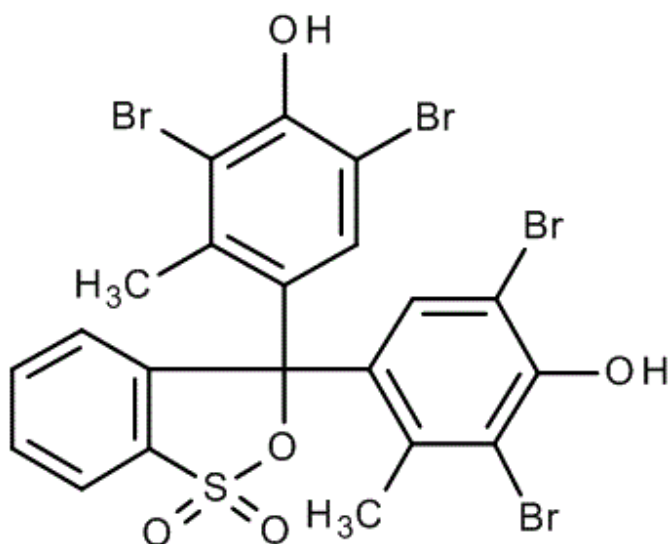
|                                    |        |                                |                           |       |                      |
|------------------------------------|--------|--------------------------------|---------------------------|-------|----------------------|
| Physical state at 20 °C            | Solid  | Colour                         | Dark greenish brown       | Odour | Characteristic odour |
| Melting point/ Freezing point [°C] | 230 °C | Solubility in water [% weight] | Slightly soluble in water |       |                      |

## Specification

|                                     |                            |
|-------------------------------------|----------------------------|
| Appearance                          | Dark greenish brown powder |
| Appearance of solution              | Conforms                   |
| pH 3.8-5.4                          | Yellow to Blue             |
| Loss on drying (at 110°C)           | Max 5.0%                   |
| Transition range (according to ACS) | Passes test                |

## BROMOCRESOL GREEN INDICATOR 95% AR

|                   |  |                  |           |
|-------------------|--|------------------|-----------|
| Product Code.     | 00495  | Grade            |           |
| Purity            | dye content 95%  | CAS No.          | 76-60-8   |
| Molecular Formula | C <sub>21</sub> H <sub>14</sub> Br <sub>4</sub> O <sub>5</sub> S | Molecular Weight | 698.04    |
| H.S.Code          | 2934.99000   | Shelf Life       | 60 Months |



### Physical Properties

|                                |                           |        |               |                                    |        |
|--------------------------------|---------------------------|--------|---------------|------------------------------------|--------|
| Physical state at 20 °C        | Solid                     | Colour | White to buff | Melting point/ Freezing point [°C] | 225 °C |
| Solubility in water [% weight] | Slightly soluble in water |        |               |                                    |        |

### Packaging



### Specification

|            |                               |
|------------|-------------------------------|
| Appearance | Yellow to Tan Coloured Powder |
|------------|-------------------------------|

|                                     |                |
|-------------------------------------|----------------|
| Dye content (by spectrophotometry)  | Min 95%        |
| Identity (IR)                       | Passes test    |
| pH 3.8-5.4                          | Yellow to blue |
| Appearance of solution              | Conforms       |
| Loss on dryig (at 110°C)            | Max 3%         |
| Transition range (according to ACS) | Passes test    |
| Sensitivity test                    | Passes test    |

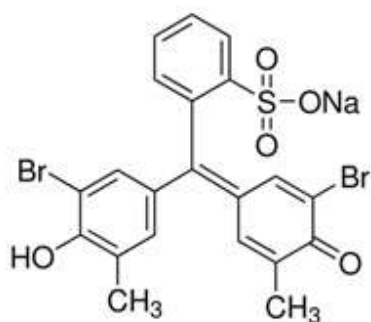
## Safety Information and Hazard Symbols

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# BROMOCRESOL PURPLE SODIUM SALT 90% MOLECULAR BIOLOGY

5',5-Dibromo-o-cresolsulfonphthalein sodium salt

|                   |  |                  |            |
|-------------------|--|------------------|------------|
| Product Code.     | 00501  | Grade            |            |
| Purity            | 90%  | CAS No.          | 62625-30-3 |
| Molecular Formula | C <sub>21</sub> H <sub>15</sub> Br <sub>2</sub> NaO <sub>5</sub> S | Molecular Weight | 562.20     |
| H.S.Code          | 0.00000  | Shelf Life       | 60 Months  |



## Physical Properties

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## Packaging



## Specification

|   |                                   |
|---|-----------------------------------|
| Appearance                                    | Black-Brown to Orange-Rust Powder |
| Absorption maxima (0.01 g/L in 0.1 N NaOH)    | 587 - 591 nm                      |
| Extinction coefficient                        | Min 47000                         |
| Absorption maxima                             | 375 - 381 nm                      |
| Extinction coefficient                        | Min 7000                          |
| Dye content (titration by AgNO <sub>3</sub> ) | Min 90%                           |
| Visual interval (pH 5.2 - 6.8)                | Yellow- Purple                    |



## Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

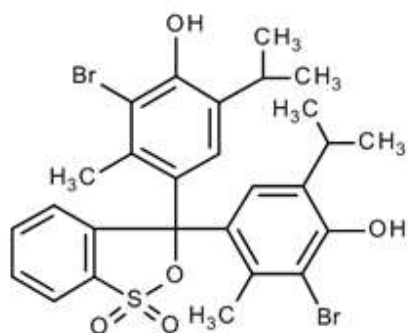
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

# BROMOTHYMOL BLUE INDICATOR AR

pH 6.0-7.6 Yellow to Blue 3',3-Dibromothymolsulfonphthalein

|                   |  |                  |           |
|-------------------|--|------------------|-----------|
| Product Code.     | 00516  | Grade            | AR        |
| Purity            |  | CAS No.          | 76-59-5   |
| Molecular Formula | C <sub>27</sub> H <sub>28</sub> Br <sub>2</sub> O <sub>5</sub> S | Molecular Weight | 624.40    |
| H.S.Code          | 2934.99000   | Shelf Life       | 60 Months |



## Physical Properties

|                                    |              |                                |                           |       |                      |
|------------------------------------|--------------|--------------------------------|---------------------------|-------|----------------------|
| Physical state at 20 °C            | Solid        | Colour                         | Brown powder              | Odour | Characteristic odour |
| Melting point/ Freezing point [°C] | 200 - 202 °C | Solubility in water [% weight] | Slightly soluble in water |       |                      |

## Packaging



## Specification

|                           |                             |
|---------------------------|-----------------------------|
| Appearance                | Pink to purple color powder |
| pH transition (6.0-7.6)   | Yellow to blue              |
| Appearance of solution    | Passes test                 |
| Loss on drying (at 110°C) | Max 3.0%                    |

|                                     |             |
|-------------------------------------|-------------|
| Transition range (according to ACS) | Passes test |
| Sensitivity                         | Passes test |

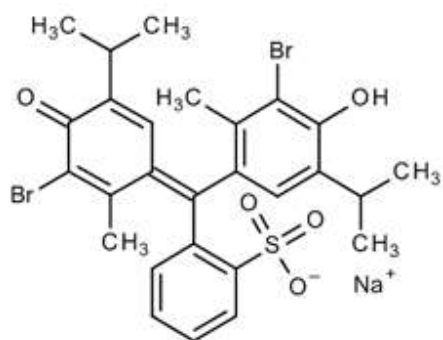
## Safety Information and Hazard Symbols

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# BROMOTHYMOL BLUE SODIUM SALT

## 3',3''-dibromothymolsulfonephthalein sodium salt

|                   |  |                  |            |
|-------------------|--|------------------|------------|
| Product Code.     | 00519  | Grade            |            |
| Purity            |  | CAS No.          | 34722-90-2 |
| Molecular Formula | C <sub>27</sub> H <sub>27</sub> Br <sub>2</sub> NaO <sub>5</sub> S | Molecular Weight | 646.38     |
| H.S.Code          | 2934.99000   | Shelf Life       | 60 Months  |



### Physical Properties

|                                |                  |        |                  |       |                      |
|--------------------------------|------------------|--------|------------------|-------|----------------------|
| Physical state at 20 °C        | Solid            | Colour | Yellowish orange | Odour | Characteristic odour |
| Solubility in water [% weight] | Soluble in water |        |                  |       |                      |

### Packaging



### Specification

|                                     |                         |
|-------------------------------------|-------------------------|
| Appearance                          | Yellowish orange powder |
| pH transition (6.0-7.6)             | Yellow to blue          |
| Appearance of solution              | Passes test             |
| Loss on dryig (at 110°C)            | Max 5%                  |
| Transition range (according to ACS) | Passes test             |

# CRESOL RED INDICATOR AR

|                   |  |                  |           |
|-------------------|--|------------------|-----------|
| Product Code.     | 00890  | Grade            | AR        |
| Purity            |  | CAS No.          | 1733-12-6 |
| Molecular Formula | C <sub>21</sub> H <sub>18</sub> O <sub>5</sub> S | Molecular Weight | 382.43    |
| H.S.Code          | 29349900.00000                                   | Shelf Life       | 60 Months |

## Physical Properties

|                         |       |        |                   |                              |       |
|-------------------------|-------|--------|-------------------|------------------------------|-------|
| Physical state at 20 °C | Solid | Colour | Dark red to brown | Density [g/cm <sup>3</sup> ] | 0.998 |
|-------------------------|-------|--------|-------------------|------------------------------|-------|

## Packaging



## Specification

|                             |  |
|-----------------------------|--|
| Appearance                  | Green to Dark Red or Maroon Powder or Crystals |
| Acidic range pH 0.2 - 1.8   | Red to yellow                                  |
| Alkaline range pH 7.0 - 8.8 | Yellow to purple                               |
| Loss on drying (at 110°C)   | Max 5%   |

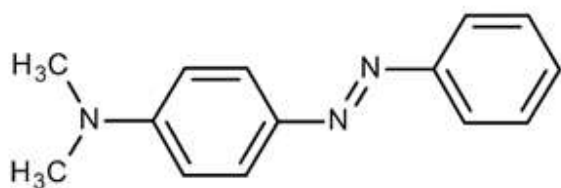
## Safety Information and Hazard Symbols

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|   |
| Symbol: GHS07<br>Signal Word: Warning<br>Hazardous Statement: H315-H319-H335<br>Precaution Statement: P261-P305 + P351 + P338 |

## DIMETHYL YELLOW (PH INDICATOR)

C.I.No.11020 p-Dimethylaminoazobenzene, 4-Dimethylaminoazobenzene, N,N-Dimethyl-4-phenylazoaniline, N,N-Dimethyl-4-aminoazobenzene, Butter Yellow, Solvent Yellow 2 ; ph 2.9 - 4.0 Red to Orange Yellow

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01052      | Grade            |           |
| Purity            |            | CAS No.          | 60-11-7   |
| Molecular Formula | C14H15N3   | Molecular Weight | 225.30    |
| H.S.Code          | 2927.00900 | Shelf Life       | 60 Months |



### Physical Properties

|                         |       |        |               |                                    |        |
|-------------------------|-------|--------|---------------|------------------------------------|--------|
| Physical state at 20 °C | Solid | Colour | Yellow powder | Melting point/ Freezing point [°C] | 111 °C |
|-------------------------|-------|--------|---------------|------------------------------------|--------|

### Packaging

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### Specification

|   |                                   |
|---|-----------------------------------|
| Appearance  | Yellow to orange brown powder     |
| Melting point   | 110 - 116°C                       |
| Transition range pH 2.9 to pH 4.0   | Red to yellow                     |
| Appearance of solution  | 0.1% solution in ethanol is clear |
| Absorption maxima in ethanol  | 403 - 407 nm                      |
| Specific absorptivity A 1%/1cm (Imax; 0.005%; ethanol; calculated on dried substance) | 1100 - 1300                       |
| Loss on drying (40°C; 1 hpa)  | Max. 5.0%                         |

## Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H301-H351

Precaution Statement: P281-P301 + P310

## LACMOID (PH INDICATOR)

|                   |            |                  |            |
|-------------------|------------|------------------|------------|
| Product Code.     | 01492      | Grade            |            |
| Purity            |            | CAS No.          | 33869-21-5 |
| Molecular Formula | C24H16N2O6 | Molecular Weight | 428.39     |
| H.S.Code          | 3204.90000 | Shelf Life       | 60 Months  |

### Physical Properties

|                                |                           |        |             |          |           |
|--------------------------------|---------------------------|--------|-------------|----------|-----------|
| Physical state at 20 °C        | Solid                     | Colour | Dark violet | pH value | 4.4 - 6.2 |
| Solubility in water [% weight] | Slightly soluble in water |        |             |          |           |


### Packaging

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### Specification

|            |  |
|------------|--|
| Appearance | Orange-red to dark violet coloured solid |
| pH (4 - 6) | Orange - red to violet                   |

### Safety Information and Hazard Symbols

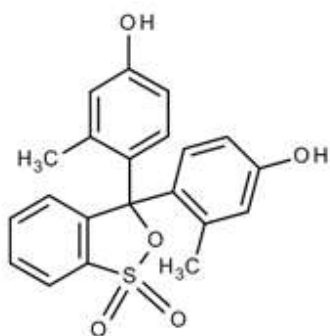
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| Symbol: GHS07<br>Signal Word: Warning<br>Hazardous Statement: H315-H319-H335<br>Precaution Statement: P261-P305 + P351 + P338 |



# M-CRESOL PURPLE INDICATOR

m-Cresolsulfonphthalein

|                   |  |                  |           |
|-------------------|--|------------------|-----------|
| Product Code.     | 00889  | Grade            |           |
| Purity            | 90%  | CAS No.          | 2303-01-7 |
| Molecular Formula | C <sub>21</sub> H <sub>18</sub> O <sub>5</sub> S | Molecular Weight | 382.44    |
| H.S.Code          | 2934.99000                                       | Shelf Life       | 60 Months |



## Physical Properties

|                         |       |        |                   |
|-------------------------|-------|--------|-------------------|
| Physical state at 20 °C | Solid | Colour | Dark green powder |
|-------------------------|-------|--------|-------------------|

## Packaging

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## Specification

|                             |   |
|-----------------------------|---|
| Appearance                  | Dark red to dark green to dark brown powder |
| Acidic range pH 1.2 - 2.8   | Red to yellow                               |
| Alkaline range pH 7.4 - 9.0 | Yellow to purple                            |
| Loss on dryig (at 110°C)    | Max 1%                                      |

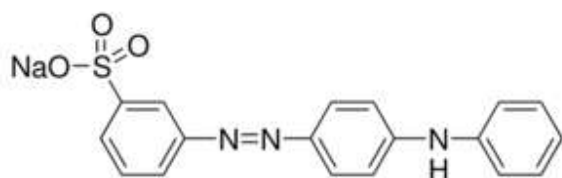
## Safety Information and Hazard Symbols

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# METANIL YELLOW AR

C.I.No.13065 3-(4-Anilinophenylazo)benzenesulfonic acid sodium salt, Acid Yellow 36

|                   |               |                  |           |
|-------------------|---------------|------------------|-----------|
| Product Code.     | 01686         | Grade            |           |
| Purity            |               | CAS No.          | 587-98-4  |
| Molecular Formula | C18H14N3NaO3S | Molecular Weight | 375.38    |
| H.S.Code          | 3204.90000    | Shelf Life       | 60 Months |



## Physical Properties

|                         |       |        |                      |                                |                  |
|-------------------------|-------|--------|----------------------|--------------------------------|------------------|
| Physical state at 20 °C | Solid | Colour | Orange yellow powder | Solubility in water [% weight] | Soluble in water |
|-------------------------|-------|--------|----------------------|--------------------------------|------------------|

## Specification

|   |                              |
|---|------------------------------|
| Appearance                                    | Orange yellow colored powder |
| pH 1.2 - 3.2                                  | Red to yellow                |
| Absorption maxima (0.1 mol/L in NaOH)         | 433 - 439 nm                 |
| Absorptivity (A 1%/1cm; at I <sub>max</sub> ) | Min 450                      |
| Loss on dryig (at 135°C)                      | Max 5%                       |

## Safety Information and Hazard Symbols



Symbol: GHS07  
Signal Word: Warning  
Hazardous Statement: H317  
Precaution Statement: P280

# METHYL ORANGE INDICATOR

(C.I. No. 13025)

|                   |                |                  |           |
|-------------------|----------------|------------------|-----------|
| Product Code.     | 01735          | Grade            |           |
| Purity            |                | CAS No.          | 547-58-0  |
| Molecular Formula | C14H14N3NaO3S  | Molecular Weight | 327.33    |
| H.S.Code          | 29270090.00000 | Shelf Life       | 60 Months |

## Physical Properties

|                              |       |                                |                            |       |          |
|------------------------------|-------|--------------------------------|----------------------------|-------|----------|
| Physical state at 20 °C      | Solid | Colour                         | Yellow to orange           | Odour | Odorless |
| Density [g/cm <sup>3</sup> ] | 1     | Solubility in water [% weight] | Soluble in 500 parts water |       |          |

## Packaging



## Specification

|                                  |  |
|----------------------------------|--|
| Appearance                       | Yellowish-orange colored powder                    |
| Identity (IR)                    | Conforms to structure                              |
| Solubility (0.1 % in water)      | Clear (passes ACS test)                            |
| Visual transition range          | from pH 3.2 (pink or red) to pH 4.4(yellow-orange) |
| Absorption maxima in 0.01 N NaOH | 461 to 469 nm                                      |

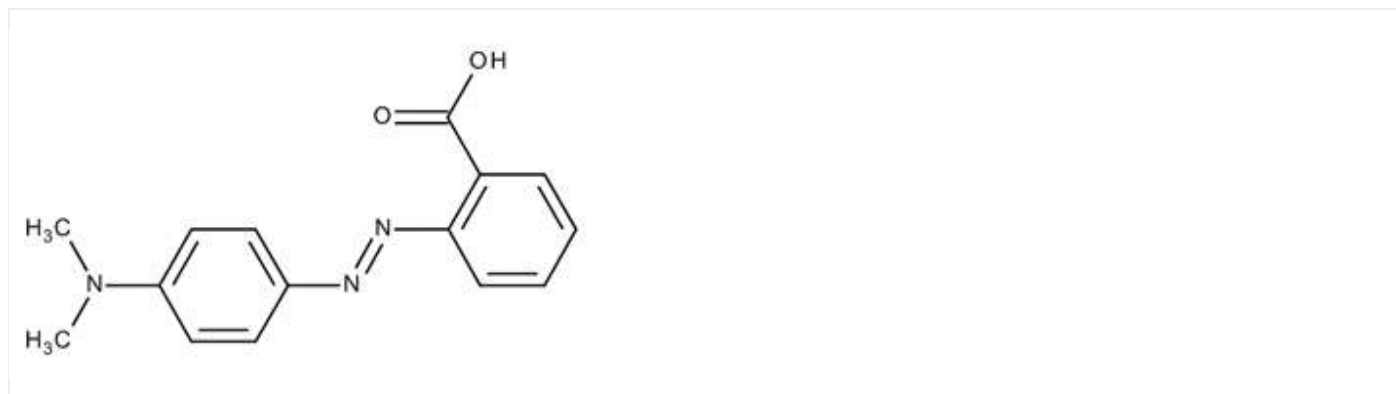
## Safety Information and Hazard Symbols

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| Symbol: GHS06<br>Signal Word: Danger<br>UN No.: 3143<br>IMCO Class No.: 6.1<br>Packing Group: III<br>Hazardous Statement: H301<br>Precaution Statement: P301 + P310 |

# METHYL RED INDICATOR AR

C.I.No.13020 2-(N,N-Dimethyl-4-aminophenyl)azobenzenecarboxylic acid, C.I. Acid Red 2 ; acid base indicator

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01743      | Grade            | AR        |
| Purity            |            | CAS No.          | 493-52-7  |
| Molecular Formula | C15H15N3O2 | Molecular Weight | 269.31    |
| H.S.Code          | 2927.00900 | Shelf Life       | 60 Months |



## Physical Properties

|                                    |       |                |                 |                                |                    |
|------------------------------------|-------|----------------|-----------------|--------------------------------|--------------------|
| Physical state at 20 °C            | Solid | Colour         | Dark red powder | Odour                          | Odorless           |
| Melting point/ Freezing point [°C] | 179°C | Vapour density | 9.3             | Solubility in water [% weight] | Insoluble in water |

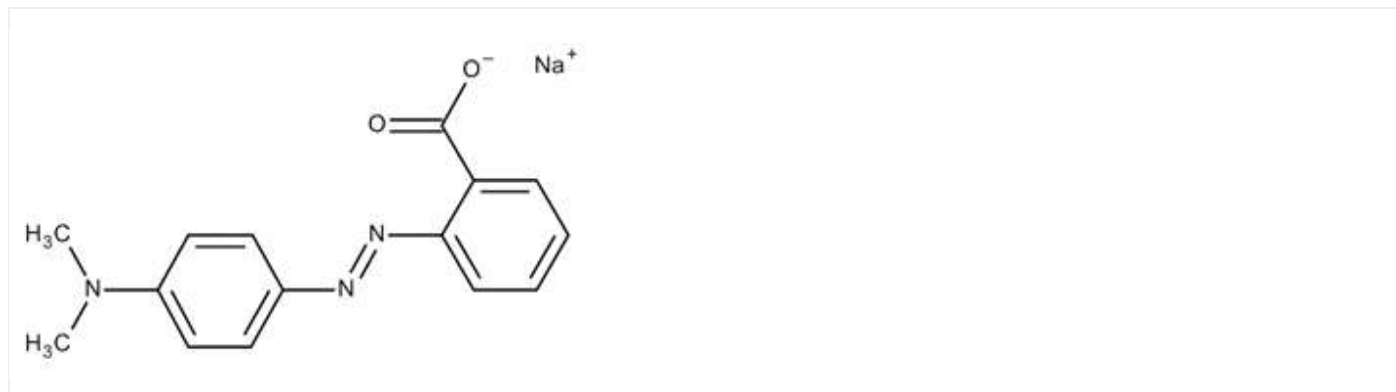
## Specification

|   |   |
|---|---|
| Appearance                                | Dark red to maroon to violet or purple powder or crystals |
| Identity                                  | Passes test   |
| pH transition range (4.4 - 6.2)           | Pink Red - yellow orange                                  |
| Insoluble matter in ethanol (1 g/L)       | Passes test   |
| Absorption maxima (buffer pH 4.5)         | 523 - 526 nm  |
| Absorption maxima (buffer pH 6.2)         | 427 - 437 nm  |
| Loss on dryig (at 110°C)                  | Max 5.0%  |
| Residue on ignition (as SO <sub>4</sub> ) | Max 2.0%  |

# METHYL RED SODIUM SALT (WATER SOLUBLE)

C.I.No.13020 4-Dimethylaminoazobenzene-2'-carboxylic acid sodium salt, Acid Red 2

|                   |   |                  |           |
|-------------------|---|------------------|-----------|
| Product Code.     | 01745   | Grade            |           |
| Purity            | Min. 95%  | CAS No.          | 845-10-3  |
| Molecular Formula | C <sub>15</sub> H <sub>14</sub> N <sub>3</sub> NaO <sub>2</sub> | Molecular Weight | 291.29    |
| H.S.Code          | 2927.00900  | Shelf Life       | 60 Months |



## Physical Properties

|                                    |         |                                |                  |       |          |
|------------------------------------|---------|--------------------------------|------------------|-------|----------|
| Physical state at 20 °C            | Solid   | Colour                         | Dark red powder  | Odour | Odorless |
| Melting point/ Freezing point [°C] | 180.5°C | Solubility in water [% weight] | Soluble in water |       |          |

## Packaging

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## Specification

|                                 |                            |
|---------------------------------|----------------------------|
| Appearance                      | Orange to Red color Powder |
| pH transition range (4.5 - 6.2) | Pink - Yellow              |
| Appearance of solution          | Passes test                |
| Loss on dryig (at 110°C)        | Max 5%                     |

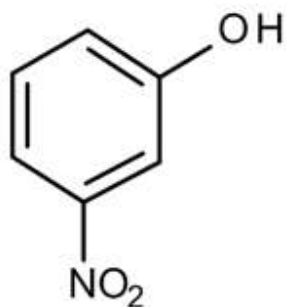
## Safety Information and Hazard Symbols

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# M-NITROPHENOL INDICATOR 99% AR

## 3-Nitrophenol

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01862      | Grade            | AR        |
| Purity            | 99%        | CAS No.          | 554-84-7  |
| Molecular Formula | C6H5NO3    | Molecular Weight | 139.11    |
| H.S.Code          | 2908.99900 | Shelf Life       | 60 Months |



### Physical Properties

|                              |       |                                |                 |                                    |      |
|------------------------------|-------|--------------------------------|-----------------|------------------------------------|------|
| Physical state at 20 °C      | Solid | Colour                         | Yellow          | Melting point/ Freezing point [°C] | 97°C |
| Density [g/cm <sup>3</sup> ] | 1.48  | Solubility in water [% weight] | Slight (0.1-1%) |                                    |      |

### Packaging

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### Specification

|   |                                 |
|---|---------------------------------|
| Appearance  | Brownish yellow coloured powder |
| Purity (by GC)  | Min 99%                         |
| Melting point   | 95 - 99°C                       |
| pH 6.6 - 8.6  | Colourless to yellow-orange     |
| Absorption maxima (buffer pH 6.6)   | 329 - 333 nm                    |
| Absorption maxima (buffer pH 11.0)  | 389 - 393 nm                    |
| Specific absorptivity A1%/1cm (I <sub>max</sub> ; 0.05 g/L; buffer pH 6.6)  | 130 - 150                       |
| Specific absorptivity A1%/1cm (I <sub>max</sub> ; 0.05 g/L; buffer pH 11.0) | 100 - 120                       |

## Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 1663

IMCO Class No.: 6.1

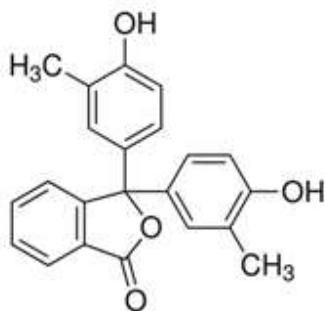
Packing Group: III

Hazardous Statement: H302-H315-H318

Precaution Statement: P280-P305 + P351 + P338

## O-CRESOLPHTHALEIN (PH INDICATOR)

|                   |  |                  |           |
|-------------------|--|------------------|-----------|
| Product Code.     | 00887  | Grade            |           |
| Purity            |  | CAS No.          | 596-27-0  |
| Molecular Formula | C <sub>22</sub> H <sub>18</sub> O <sub>4</sub> | Molecular Weight | 346.39    |
| H.S.Code          | 2934.99000                                     | Shelf Life       | 60 Months |



### Physical Properties

|                         |       |        |             |                                    |              |
|-------------------------|-------|--------|-------------|------------------------------------|--------------|
| Physical state at 20 °C | Solid | Colour | Light brown | Melting point/ Freezing point [°C] | 219 - 221 °C |
|-------------------------|-------|--------|-------------|------------------------------------|--------------|

### Specification

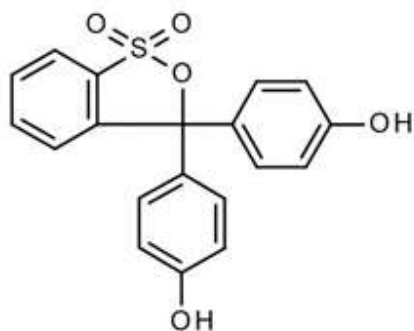
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| Appearance   | Light brown powder       |
| pH 8.2-9.8   | Colourless to violet red |
| Absorption maxima at pH 11.3                         | 565 - 569 nm             |
| Specific absorptivity A1%/1cm (at I <sub>max</sub> ) | Min 1500                 |
| Insoluble matter in ethanol                          | Passes test              |
| Loss on dryig (at 135°C)                             | Max 0.5%                 |
| Sulphated ash  | Max 0.5%                 |



# PHENOL RED AR (PH INDICATOR)

pH Indicator Phenolsulfonphthalein

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01976      | Grade            |           |
| Purity            |            | CAS No.          | 143-74-8  |
| Molecular Formula | C19H14O5S  | Molecular Weight | 354.38    |
| H.S.Code          | 2934.99000 | Shelf Life       | 60 Months |



## Physical Properties

|                                |                           |        |                 |       |          |
|--------------------------------|---------------------------|--------|-----------------|-------|----------|
| Physical state at 20 °C        | Solid                     | Colour | Dark red powder | Odour | Odorless |
| Solubility in water [% weight] | Slightly soluble in water |        |                 |       |          |

## Specification

|                                  |                                  |
|----------------------------------|----------------------------------|
| Appearance                       | Reddish powder                   |
| Visual transition range          | From pH 6.8 (Yellow) - 8.2 (Red) |
| Absorption maxima at pH 6.5 (I1) | 430 - 435 nm                     |
| Absorption maxima at pH 8.2 (I2) | 557 - 560 nm                     |
| Loss on dryig (at 110°C)         | Max 5.0%                         |
| Clarity of solution              | Passes ACS test                  |

## Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

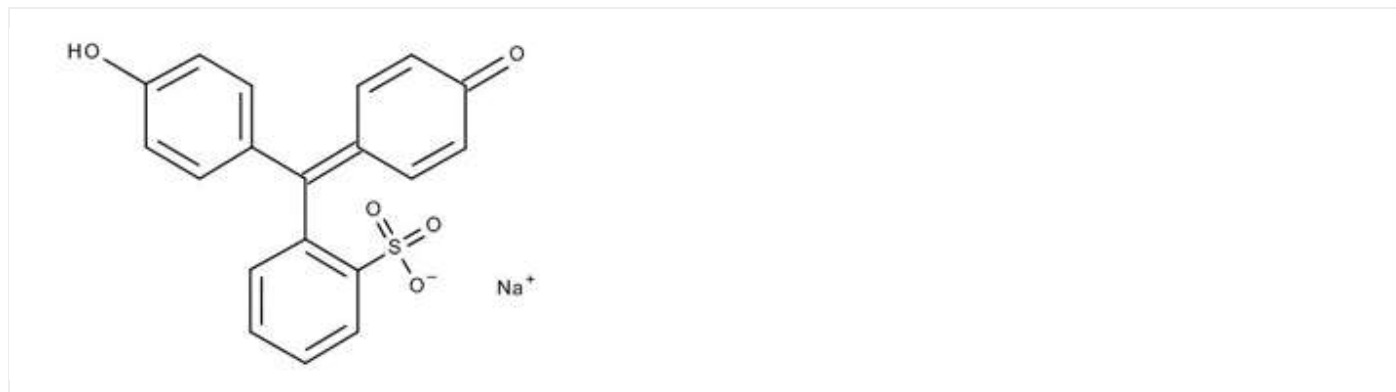
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

# PHENOL RED SODIUM SALT

pH indicator. Water soluble Suitable for tissue culture work. Phenolsulfonephthalein sodium salt

|                   |  |                  |            |
|-------------------|--|------------------|------------|
| Product Code.     | 01978  | Grade            |            |
| Purity            |  | CAS No.          | 34487-61-1 |
| Molecular Formula | C <sub>19</sub> H <sub>13</sub> NaO <sub>5</sub> S | Molecular Weight | 376.36     |
| H.S.Code          | 2934.99000   | Shelf Life       | 60 Months  |



## Physical Properties

|                                    |        |                                |                  |       |          |
|------------------------------------|--------|--------------------------------|------------------|-------|----------|
| Physical state at 20 °C            | Solid  | Colour                         | Dark red powder  | Odour | Odorless |
| Melting point/ Freezing point [°C] | 285 °C | Solubility in water [% weight] | Soluble in water |       |          |

## Specification

|                                  |                          |
|----------------------------------|--------------------------|
| Appearance                       | Dark red to brown powder |
| Transition range (pH 6.5 - 8.2)  | Yellow - Reddish violet  |
| Absorption maxima at pH 6.5 (I1) | 430 - 435 nm             |
| Absorption maxima at pH 8.2 (I2) | 557 - 560 nm             |
| Loss on dryig (at 110°C)         | Max 5%                   |

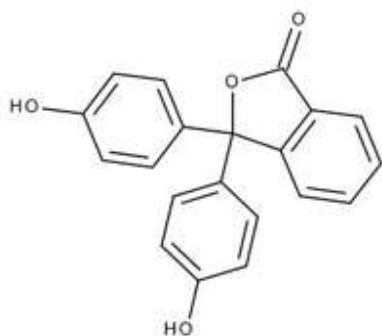
## Safety Information and Hazard Symbols

|   |
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|   |
| Symbol: GHS07<br>Signal Word: Warning<br>Hazardous Statement: H315-H319-H335<br>Precaution Statement: P261-P305 + P351 + P338 |

# PHENOLPHTHALEIN INDICATOR

## 3,3-Bis(4-hydroxyphenyl)-1(3H)-isobenzofuranone

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01973      | Grade            |           |
| Purity            |            | CAS No.          | 77-09-8   |
| Molecular Formula | C20H14O4   | Molecular Weight | 318.33    |
| H.S.Code          | 2932.20900 | Shelf Life       | 60 Months |



### Physical Properties

|                                    |              |                              |              |                                |                           |
|------------------------------------|--------------|------------------------------|--------------|--------------------------------|---------------------------|
| Physical state at 20 °C            | Solid        | Colour                       | White powder | Odour                          | Odorless                  |
| Melting point/ Freezing point [°C] | 261 - 263 °C | Density [g/cm <sup>3</sup> ] | 1.299        | Solubility in water [% weight] | Slightly soluble in water |

### Packaging



### Specification

|                                   |                             |
|-----------------------------------|-----------------------------|
| Appearance                        | A white to off white powder |
| pH range (8.2 - 10.0)             | Colourless to red-violet    |
| Absorption maxima (buffer pH 9.8) | 551 - 554 nm                |
| Sensitivity                       | Passes test                 |

|                             |           |
|-----------------------------|-----------|
| Sulphated ash               | Max 0.05% |
| Chloride (Cl)               | Max 0.01% |
| Sulphate (SO <sub>4</sub> ) | Max 0.01% |
| Loss on dryig (at 110°C)    | Max 1%    |

## Safety Information and Hazard Symbols



Symbol: GHS08

Signal Word: Danger

Hazardous Statement: H341-H350-H361

Precaution Statement: P201-P281-P308 + P313

# PHENOLPHTHALEIN, 98.5%, INDICATOR GRADE, PURE

|                   |            |                  |                 |
|-------------------|------------|------------------|-----------------|
| Product Code.     | 1973A      | Grade            | Indicator Grade |
| Purity            | 98.5%      | CAS No.          | 77-09-8         |
| Molecular Formula | C20H14O4   | Molecular Weight | 318.32          |
| H.S.Code          | 2932.20900 | Shelf Life       | 60 Months       |

## Physical Properties

|                                    |              |                 |              |                                |                           |
|------------------------------------|--------------|-----------------|--------------|--------------------------------|---------------------------|
| Physical state at 20 °C            | Solid        | Colour          | White powder | Odour                          | Odorless                  |
| Melting point/ Freezing point [°C] | 261 - 263 °C | Density [g/cm3] | 1.299        | Solubility in water [% weight] | Slightly soluble in water |

## Packaging

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## Specification

|                      |                            |
|----------------------|----------------------------|
| Appearance (Color)   | White to almost white      |
| Appearance (Form)    | Powder                     |
| Infrared spectrum    | Conforms                   |
| Assay                | 98.0 to 102.0 %            |
| Loss on drying       | ≤0.5 % (105°C)             |
| Chloride (Cl)        | ≤100 ppm                   |
| Sulfate (So4)        | ≤200 ppm                   |
| Acidity/alkalinity   | (per Ph. Eur.) Passes test |
| Heavy metals (as Pb) | ≤10 ppm                    |
| Sulfated ash         | ≤0.1 %                     |
| Color of solution    | (per Ph. Eur.) Passes test |

## Safety Information and Hazard Symbols



Symbol: GHS08

Signal Word: Danger

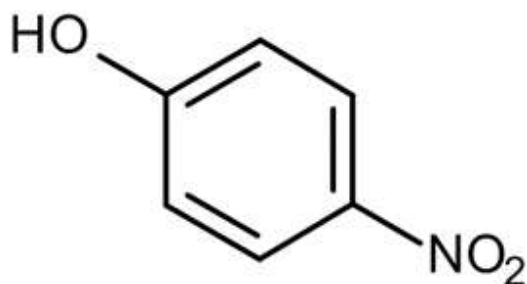
Hazardous Statement: H341-H350-H361

Precaution Statement: P201-P281-P308 + P313

# P-NITROPHENOL INDICATOR AR

## 4-Nitrophenol

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 01865      | Grade            | AR        |
| Purity            | 99.5%      | CAS No.          | 100-02-7  |
| Molecular Formula | C6H5NO3    | Molecular Weight | 139.11    |
| H.S.Code          | 2908.99900 | Shelf Life       | 60 Months |



## Physical Properties

|   |                 |                                    |               |                                |                                |
|---|-----------------|------------------------------------|---------------|--------------------------------|--------------------------------|
| Physical state at 20 °C                               | Solid           | Colour                             | Slight Yellow | Odour                          | Odorless                       |
| pH value  | 4.4             | Melting point/ Freezing point [°C] | 112 °C        | Auto-ignition temperature [°C] | 283 °C                         |
| Flash point [°C]                                      | 169 °C          | Boiling point [°C]                 | 279 °C        | Evaporation rate               | <1                             |
| Vapour pressure mm/Hg                                 | 0.6 mmHg 120 °C | Density [g/cm <sup>3</sup> ]       | 1.27          | Solubility in water [% weight] | Slightly soluble in cold water |
| Partition coefficient Log Pow octanol / water at 20°C | 1.91            |                                    |               |                                |                                |

## Packaging

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## Specification

|                                   |  |
|-----------------------------------|--|
| Appearance                        | Yellow to brown crystalline powder or crystals and/or chunks |
| pH 5.4 - 7.5                      | Colourless to yellow   |
| Melting range                     | 110 - 114°C  |
| Absorption maxima (buffer pH 5.4) | 316 - 320 nm   |

Absorption maxima (buffer pH 7.5)

398 - 402 nm

## Safety Information and Hazard Symbols



Symbol: GHS07, GHS08

Signal Word: Warning

UN No.: 1663

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H302-H312-H332-H373

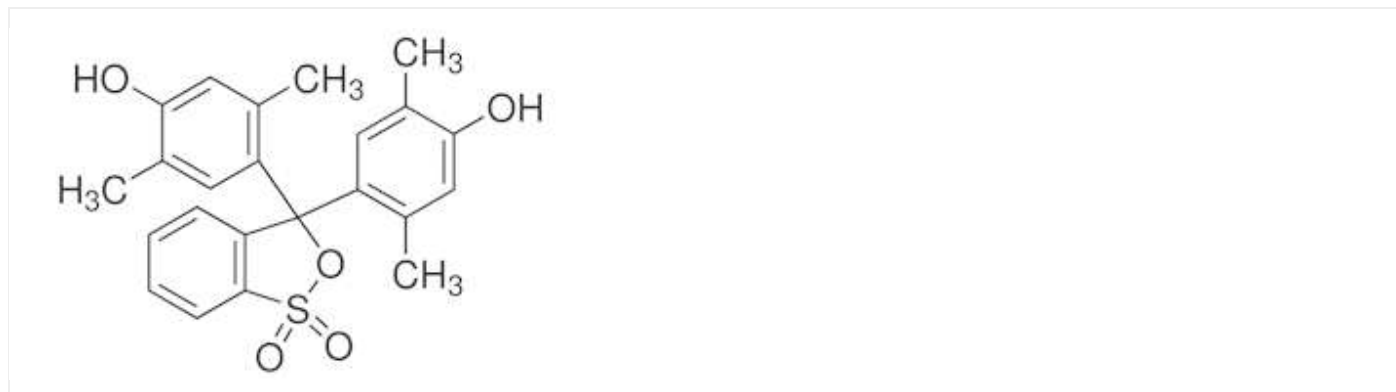
Precaution Statement: P280



# P-XYLENOL BLUE INDICATOR AR

p-Xylenolsulfonphthalein

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 02853      | Grade            |           |
| Purity            |            | CAS No.          | 125-31-5  |
| Molecular Formula | C23H22O5S  | Molecular Weight | 410.49    |
| H.S.Code          | 3204.90000 | Shelf Life       | 60 Months |



## Physical Properties

|                                    |        |        |              |       |          |
|------------------------------------|--------|--------|--------------|-------|----------|
| Physical state at 20 °C            | Solid  | Colour | Brown powder | Odour | Odorless |
| Melting point/ Freezing point [°C] | 212 °C |        |              |       |          |

## Packaging

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## Specification

|                             |                |
|-----------------------------|----------------|
| Appearance                  | Brown powder   |
| Active range pH 1.2 - 3.8   | Red to yellow  |
| Alkaline range pH 8.0 - 9.6 | Yellow to blue |

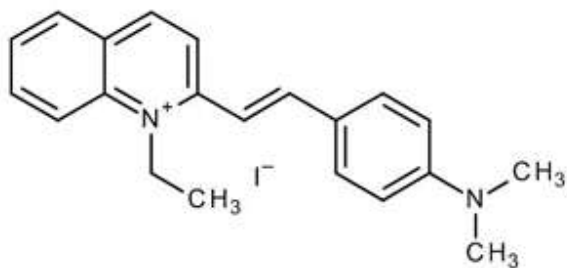
## Safety Information and Hazard Symbols

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# QUINAIDINE RED INDICATOR 95% DYE CONTENT

2-(4-Dimethylaminostyryl)-1-ethylquinolinium iodide

|                   |   |                  |           |
|-------------------|---|------------------|-----------|
| Product Code.     | 02240   | Grade            |           |
| Purity            |   | CAS No.          | 117-92-0  |
| Molecular Formula | C <sub>21</sub> H <sub>23</sub> IN <sub>2</sub> | Molecular Weight | 430.32    |
| H.S.Code          | 2933.39900                                      | Shelf Life       | 60 Months |



## Physical Properties

|                         |       |        |              |                  |        |
|-------------------------|-------|--------|--------------|------------------|--------|
| Physical state at 20 °C | Solid | Colour | Green powder | Flash point [°C] | 93.3°C |
|-------------------------|-------|--------|--------------|------------------|--------|

## Packaging

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## Specification

|  |                       |
|--|-----------------------|
| Appearance   | Green coloured powder |
| Transition range (pH 1.4 - 3.2)  | Colorless to red      |
| Absorption maxima  | 528 - 533 nm          |
| Absorptivity (A 1%/1cm; at I <sub>max</sub> ; in glacial acetic acid; on dried substances) | 1150 - 1250           |
| Water (H <sub>2</sub> O)   | Max 5%                |
| Suitability (as indicator)   | Passes test           |

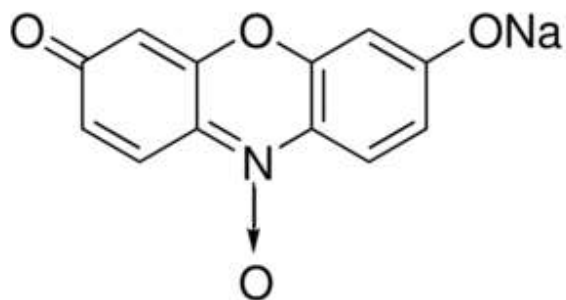
## Safety Information and Hazard Symbols

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## RESAZURIN SODIUM SALT AR

Solution should be freshly made. 7-Hydroxy-3H-phenoxazin-3-one-10-oxide sodium salt ; resazurin sodium salt

|                   |  |                  |            |
|-------------------|--|------------------|------------|
| Product Code.     | 02247  | Grade            |            |
| Purity            |  | CAS No.          | 62758-13-8 |
| Molecular Formula | C <sub>12</sub> H <sub>6</sub> NNaO <sub>4</sub> | Molecular Weight | 251.17     |
| H.S.Code          | 3204.90000                                       | Shelf Life       | 60 Months  |



### Physical Properties

|                         |       |        |                          |       |          |
|-------------------------|-------|--------|--------------------------|-------|----------|
| Physical state at 20 °C | Solid | Colour | Bluish black crystalline | Odour | Odorless |
|-------------------------|-------|--------|--------------------------|-------|----------|

### Packaging

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### Specification

|               |  |
|---------------|--|
| Appearance    | Green to very dark greenish black crystalline powder |
| pH transition | 5 - 7 (Pink to blue violet)                          |

### Safety Information and Hazard Symbols

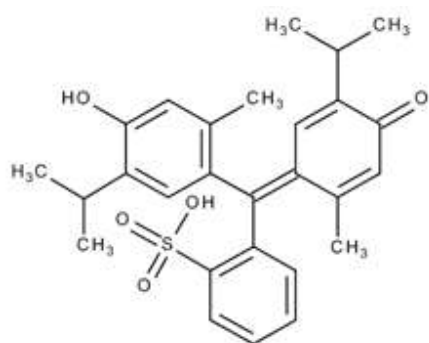


Symbol: GHS07  
Signal Word: Warning  
Hazardous Statement: H315-H319-H335  
Precaution Statement: P261-P305 + P351 + P338

# THYMOL BLUE INDICATOR AR

Thymolsulfonphthalein

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 02696      | Grade            |           |
| Purity            |            | CAS No.          | 76-61-9   |
| Molecular Formula | C27H30O5S  | Molecular Weight | 466.60    |
| H.S.Code          | 2934.99000 | Shelf Life       | 60 Months |



## Physical Properties

|                                    |              |                 |                       |                                |                      |
|------------------------------------|--------------|-----------------|-----------------------|--------------------------------|----------------------|
| Physical state at 20 °C            | Solid        | Colour          | Brownish green powder | Odour                          | Characteristic odour |
| Melting point/ Freezing point [°C] | 221 - 224 °C | Density [g/cm3] | 0.979                 | Solubility in water [% weight] | Soluble in water     |

## Packaging

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## Specification

|                           |                       |
|---------------------------|-----------------------|
| Appearance                | Brownish green powder |
| Acidic range pH 1.2-2.8   | Red to yellow         |
| Alkaline range pH 8.0-9.6 | Yellow to blue        |
| Loss on drying            | Max 10%               |

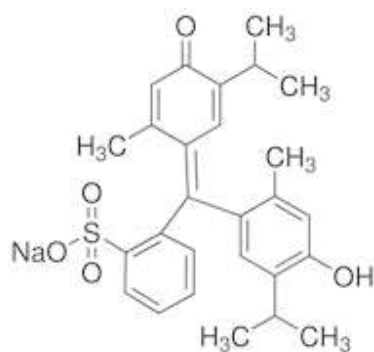
## Safety Information and Hazard Symbols

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# THYMOL BLUE SODIUM SALT WATER SOLUBLE

Water soluble. Thymolsulfonphthalein sodium salt

|                   |  |                  |            |
|-------------------|--|------------------|------------|
| Product Code.     | 02698  | Grade            |            |
| Purity            |  | CAS No.          | 62625-21-2 |
| Molecular Formula | C <sub>27</sub> H <sub>29</sub> NaO <sub>5</sub> S | Molecular Weight | 488.58     |
| H.S.Code          | 2934.99000   | Shelf Life       | 60 Months  |



## Physical Properties

|                                    |       |                                |                  |       |                      |
|------------------------------------|-------|--------------------------------|------------------|-------|----------------------|
| Physical state at 20 °C            | Solid | Colour                         | Brown red powder | Odour | Characteristic odour |
| Melting point/ Freezing point [°C] | 284°C | Solubility in water [% weight] | Soluble in water |       |                      |

## Packaging

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## Specification

|                            |                          |
|----------------------------|--------------------------|
| Appearance                 | Brown red colored powder |
| Solubility (0.1% in water) | Clear                    |
| pH 1.2 - 2.8               | Red to yellow            |
| pH 8.0 - 9.6               | Yellow to blue           |
| Loss on drying (at 105°C)  | Max 5%                   |

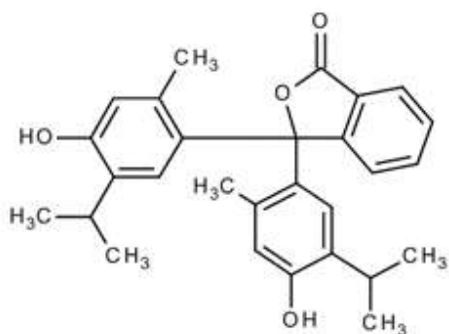
## Safety Information and Hazard Symbols

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# THYMOLPHTHALEIN INDICATOR AR

5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

|                   |            |                  |           |
|-------------------|------------|------------------|-----------|
| Product Code.     | 02701      | Grade            | AR        |
| Purity            |            | CAS No.          | 125-20-2  |
| Molecular Formula | C28H30O4   | Molecular Weight | 430.55    |
| H.S.Code          | 2932.20900 | Shelf Life       | 60 Months |



## Physical Properties

|                                |                    |   |              |                                    |              |
|--------------------------------|--------------------|---|--------------|------------------------------------|--------------|
| Physical state at 20 °C        | Solid              | Colour  | White powder | Melting point/ Freezing point [°C] | 251 - 253 °C |
| Solubility in water [% weight] | Insoluble in water | Partition coefficient Log Pow octanol / water at 20°C | 7.06         |                                    |              |

## Packaging

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## Specification

|                            |   |
|----------------------------|---|
| Appearance                 | White powder                              |
| Infrared spectrum          | Conforms                                  |
| Visual transition interval | from pH 8.8 (Colorless) to pH 10.5 (blue) |
| Absorption maxima          | 592 - 596 nm                              |

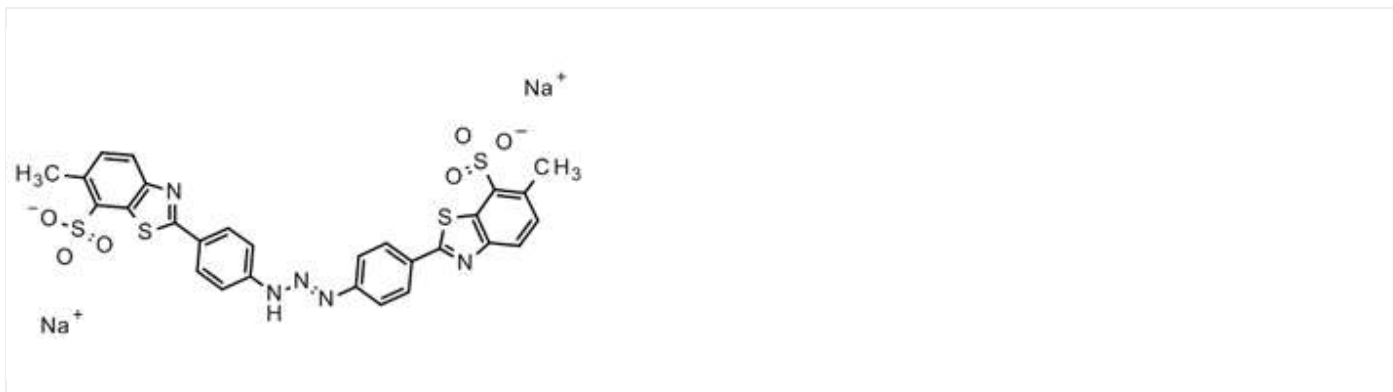
## Safety Information and Hazard Symbols

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# TITAN YELLOW AR

C.I.No.19540 Thiazole Yellow G; Clayton Yellow; Direct Yellow 9

|                   |  |                  |           |
|-------------------|--|------------------|-----------|
| Product Code.     | 02717  | Grade            |           |
| Purity            |  | CAS No.          | 1829-00-1 |
| Molecular Formula | C <sub>28</sub> H <sub>19</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>6</sub> S <sub>4</sub> | Molecular Weight | 695.73    |
| H.S.Code          | 3204.90000   | Shelf Life       | 60 Months |



## Physical Properties

|   |                        |                                    |                        |                                |                 |
|---|------------------------|------------------------------------|------------------------|--------------------------------|-----------------|
| Physical state at 20 °C                               | Solid                  | Colour                             | Yellowish brown powder | Odour                          | Odorless        |
| pH value  | 5.1 at 10 g/l at 20 °C | Melting point/ Freezing point [°C] | > 300 °C               | Solubility in water [% weight] | 29 g/l at 20 °C |
| Partition coefficient Log Pow octanol / water at 20°C | 1.73                   |                                    |                        |                                |                 |

## Packaging

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## Specification

|   |                                      |
|---|--------------------------------------|
| Appearance                                    | Yellowish brown colored powder***    |
| Transition range                              | pH 12.0-13.0 - yellow to orange -red |
| Absorption maxima (buffer pH 7.0)             | 397 - 407 nm                         |
| Absorptivity (A 1%/1cm; at I <sub>max</sub> ) | Min 320.0                            |
| Loss on dryig (at 110°C)                      | Max 8.0%                             |
| ***May darken on storage                      |                                      |

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