

## QUALITY SPECIFICATION

### Thymol

Catalog No.: NST-10-209

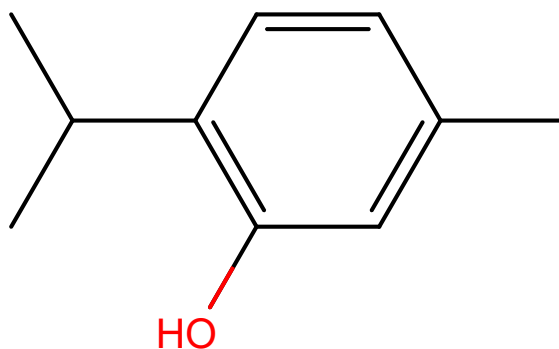
CAS No.: 89-83-8

Molecular formula: C<sub>10</sub>H<sub>14</sub>O

MW: 150.22

Source: *Thymus vulgaris*

Part used: leaves & flower



| No. | Parameter              | Specification                  | Method                  |
|-----|------------------------|--------------------------------|-------------------------|
| 1.  | Appearance             | Crystals or crystalline powder | Visual                  |
| 2.  | Color                  | White or colorless             | Visual                  |
| 3.  | Identification         | Conforms                       | IR                      |
| 4.  | Assay                  | 98%-100%                       | GC                      |
| 5.  | Odor                   | Characteristic                 | Organoleptic            |
| 6.  | Taste                  | Characteristic                 | Organoleptic            |
| 7.  | Melting point          | 48°C-52°C                      | Melting point apparatus |
| 8.  | Total impurities       | ≤1.0 %                         | GC                      |
| 9.  | Residue on evaporation | ≤0.05 %                        | In house                |
| 10. | Heavy Metals           | ≤10 ppm                        | ICP-MS                  |
| 11. | Lead                   | ≤2 ppm                         | ICP-MS                  |
| 12. | Arsenic                | ≤1 ppm                         | ICP-MS                  |
| 13. | Mercury                | ≤0.1 ppm                       | ICP-MS                  |
| 14. | Cadmium                | ≤1 ppm                         | ICP-MS                  |

|     |                              |                                     |               |
|-----|------------------------------|-------------------------------------|---------------|
| 15. | TPC                          | Not more than 10 <sup>3</sup> CFU/g | ISO 6579:2002 |
| 16. | TYMC                         | Not more than 10 <sup>2</sup> CFU/g | ISO 6579:2002 |
| 17. | <i>Escherichia Coli</i>      | Absent                              | ISO 6579:2002 |
| 18. | <i>Salmonella</i>            | Absent                              | ISO 6579:2002 |
| 19. | <i>Staphylococcus aureus</i> | Absent                              | ISO 6579:2002 |

Storage: long term storage - airtight container +2 ... +8 °C

Stability: 24 months when properly stored