



# JOHN KELLYS (LONDON) LTD

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● Essential Oils ● Aromatic Chemicals ● Oleoresins ● Fragrances ● Flavors ● Functional ingredients

## TECHNICAL DATA SHEET

**PRODUCT:** Peppermint Oil Piperita MF 1.3%

**JK LOT NUMBER:** 38133

**DATE OF MANUFACTURE:** May 2025

**DATE OF EXPIRY:** May 2028

**Grade:** EP 7.8

**Alternative Name:** Peppermint Ex-Mentha  
Piperita

### PHYSICO-CHEMICAL PROPERTIES

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| <b>INCI Name</b>          | Mentha Piperita (INCI)                                       |
| <b>Natural status</b>     | Natural                                                      |
| <b>Appearance</b>         | Colorless, pale yellow or pale greenish-yellow liquid.       |
| <b>Specific gravity</b>   | 0.900 ~ 0.916 g/ml at 25°C                                   |
| <b>Optical rotation</b>   | -30° ~ -10° at 25°C                                          |
| <b>Refractive index</b>   | 1.457 ~ 1.467 at 25°C                                        |
| <b>Flash point</b>        | 70°C +/-1 (closed cup)                                       |
| <b>Acid Value</b>         | 1.40 max                                                     |
| <b>Fatty Oils</b>         | Absent                                                       |
| <b>Acidity Alkalinity</b> | Neutral to litmus                                            |
| <b>Solubility</b>         | Very slightly soluble in water, soluble in organic solvents; |

### GC PROFILE

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|-------------|-------------------|----------|-------------------|--------------|-------------------|--------------|-------------------|-----------------|-------------------|-------------|------------------|-----------|-------------------|----------|------------------|---------|------------------|
| <b>Typical purity / assay</b> | <table><tr><td>L-Limonene</td><td>01.000 ~ 03.500 %</td></tr><tr><td>1,8-Cineole</td><td>03.500 ~ 07.000 %</td></tr><tr><td>Menthone</td><td>14.000 ~ 32.000 %</td></tr><tr><td>Mentho Furan</td><td>01.000 ~ 02.000 %</td></tr><tr><td>Iso Menthone</td><td>01.500 ~ 10.000 %</td></tr><tr><td>Menthyl Acetate</td><td>02.800 ~ 10.000 %</td></tr><tr><td>Iso Pulegol</td><td>00.200 % Maximum</td></tr><tr><td>L-Menthol</td><td>40.000 ~ 45.000 %</td></tr><tr><td>Pulegone</td><td>02.500 % Maximum</td></tr><tr><td>Carvone</td><td>00.200 % Maximum</td></tr></table> | L-Limonene | 01.000 ~ 03.500 % | 1,8-Cineole | 03.500 ~ 07.000 % | Menthone | 14.000 ~ 32.000 % | Mentho Furan | 01.000 ~ 02.000 % | Iso Menthone | 01.500 ~ 10.000 % | Menthyl Acetate | 02.800 ~ 10.000 % | Iso Pulegol | 00.200 % Maximum | L-Menthol | 40.000 ~ 45.000 % | Pulegone | 02.500 % Maximum | Carvone | 00.200 % Maximum |
| L-Limonene                    | 01.000 ~ 03.500 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| 1,8-Cineole                   | 03.500 ~ 07.000 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Menthone                      | 14.000 ~ 32.000 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Mentho Furan                  | 01.000 ~ 02.000 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Iso Menthone                  | 01.500 ~ 10.000 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Menthyl Acetate               | 02.800 ~ 10.000 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Iso Pulegol                   | 00.200 % Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| L-Menthol                     | 40.000 ~ 45.000 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Pulegone                      | 02.500 % Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |
| Carvone                       | 00.200 % Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                   |             |                   |          |                   |              |                   |              |                   |                 |                   |             |                  |           |                   |          |                  |         |                  |