

**QUALITY CERTIFICATE**

Product name: PEPPERMINT OIL  
Quality: Ph.Eur.11.0.  
Package: 50 g  
Lot No.: GP5160946  
Manufacturing date: 09.2023.  
Expiry date: 14.06.2027. (DMY)  
Anal. No.: 18834H60946

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	clear, colourless or greenish-yellow transparent liquid	clear, greenish-yellow transparent liquid
Identity	identical	identical
Density (d <sub>4</sub> <sup>20</sup> )	0,900-0,916 g/cm <sup>3</sup>	0,900 g/cm <sup>3</sup>
Refractive index (20° □ C)	1,457-1,467	1,457
Specific optical rotation (20 °C)(dried substance)	-10 - -30 °	-26,4 °
Acid value	max. 1,4	0,20
Fatty oils and resinified essential oils	passes test	passes test
Mint oil	max.0,2 %	0,2 %
Chromatographic profile (GC)	passes test	passes test
limonene	1,0-3,5 %	2,6 %
1,8-Cineole	3,5-8,0 %	6,0 %
menthone	14,0-32,0 %	25,5 %
menthofuran	1,0-8,0 %	1,6 %
iso-Menthone	1,5-10,0 %	4,3 %
Menthyl acetate	2,8-10,0 %	5,9 %
iso-Pulegol	max.0,2 %	0,2 %
menthol	30,0-55,0 %	41,7 %
Pulegone	max. 3,0 %	0,9 %
carvone	max. 1,0 %	0,0 %
1,8-Cineole:Limonene	min.2	2,3

**The Product complies with the requirements of Ph.Eur.11.0.**

Kiállítva: Halásztelek, 2024.06.17.

  
Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
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