

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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IS 16583: 2017 पेपरमीट का तेल, मेन्था पाईप्रिता

(भारतीय प्रजाति) – विशिष्ट

मे

मसौदा संशोधन संख्या 1

***Draft* AMENDMENT NO.1**

TO

**IS 16583: 2017 OIL OF PEPPERMINT, MENTHA PIPERITA
(INDIAN TYPE) — SPECIFICATION**

(ICS 71.100.60)

Fragrance and Flavour Sectional Committee,
PCD 18

Last date for sharing the comments is
18 November 2024

(Page 2, Table 1) — Substitute the following Table for the existing:

Table 1 Requirements for Oil of Peppermint, *Mentha piperita* (Indian Type)
(Clauses 4.3 and 6.3.1)

Sl No.	Characteristic	Requirement	Method of Test, Ref to	
			IS No.	Annex
(1)	(2)	(3)	(4)	(5)
i)	Odour	Characteristic sweet minty, herbal followed by cooling sensation	2284	—
ii)	a) Relative density at 27°/27°C ¹⁾	0.8915 to 0.9125	326 (Part 3)	—
	b) Relative density at 20°/20°C	0.8960 to 0.9170		
iii)	Optical rotation [α D]	-15° to -22°	326 (Part 4)	—
iv)	Refractive index [n_D^{27}] at 27°C ¹⁾	1.4500 to 1.4623	326 (Part 5)	—

	Refractive index [n_D^{20}] at 20°C	1.4473 to 1.4660		
v)	Acid value, <i>Max</i> , gravity 0.900 to 0.910	2	326 (Part 7)	—
vi)	Free alcohols, as menthol, percent by mass	32.0 to 40.0	326 (Part 9)	—
vii)	Esters, as menthyl acetate, percent by mass	3.00 to 6.00	326 (Part 9)	—
viii)	Total alcohols, as menthol (molecular mass 156.26), percent by mass	35.0 to 45.0	326 (Part 9)	—
ix)	Flash point, °C, <i>Min</i>	71	326 (Part 26)	
x)	Chromatographic profile:		—	Annex A
	a) Menthofuran, percent by mass	0 – 6	—	—
	b) <i>Cis</i> -sabinene hydrate, <i>Min</i> , percent by mass	0.3	—	—
	c) Menthol, <i>Min</i> , percent by mass	30.0	—	—
	d) Isomenthone, <i>Max</i> , percent by mass	7.00	—	—

¹⁾ The correction factor for relative density and refractive index for each degree Celsius change in temperature is 0.00064 and 0.00038 respectively.

(PCD 18)