Certificate of Analysis

Product: CHAMOMILE OIL ROMAN ORGANIC

Botanical Name: *Chamaemelum nobile*

PHYSICAL AND CHEMICAL PROPERTIES

TEST	SPECIFICATION	RESULT
APPEARANCE	MOBILE LIQUID	MOBILE LIQUID
COLOUR	COLOURLESS TO YELLOW-OLIVE OR PALE BLUE TO PALE BLUE-GREEN	ALMOST COLOURLESS
CLARITY	CLEAR, NO FOREIGN MATTER	CLEAR, NO FOREIGN MATTER
ODOUR	PECULIAR, SWEET, WARM, HERBACEOUS	CHARACTERISTIC
SPECIFIC GRAVITY @ 20˚ C	0.891 to 0.930	0.894
OPTICAL ROTATION @ 20˚ C	-2° to +5°	+3°
REFRACTIVE INDEX @ 20˚ C	1.435 to 1.457	1.438

GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)
isobutyl isobutyrate	0.44
alpha-pinene	9.98
camphere	9.54
3-methylbutyl isobutyrate	8.57
2-methylbutyl isobutyrate	1.59
limonene	0.11
isobutyl angelate	3.61
but-2-enyl angelate	12.86
methyl allyl angelate	6.31
trans-pinocarveol	5.93
2-methylbutyl angelate	6.39
isoamyl angelate	6.19
pinocarvone	2.08
angelyl angelate	0.96
3-methylpentyl angelate	15.66