

## LIGHT LIQUID PARAFFIN

Divyol Light Liquid Paraffin Oils are produced from highly refined hydro-cracked / hydro-treated base oil with a high degree of purity to meet IP / BP / USP standards. They have excellent oxidation / UV stability and are suitable for application in pharmaceuticals, cosmetics and food industries for direct and indirect food contact.

Sr. No.	Characteristics	As per IP standards	As per BP standards	As per USP standards
1	Description / appearance	Colourless, transparent, oily liquid; free from fluorescence in daylight; almost odourless when cold	Colourless, transparent, oily liquid; free from fluorescence in daylight	Colourless, transparent, oily liquid; free from fluorescence in daylight
2	Solubility	Soluble in chloroform, ether and light petroleum (boiling range 40 – 60 °C); practically insoluble in water and ethanol (95%); miscible with fixed / volatile oils	Practically insoluble in water; partly soluble in ethanol (96%); miscible with hydrocarbons	Insoluble in water and alcohol; soluble in volatile oils; miscible with most fixed oils except castor oil
3	Identification	–	A) Infrared absorption spectrum is concordant with the reference spectrum of liquid paraffin. B) Red in aqueous phase C) Complies with viscosity test	A) Infrared Absorption: Reference Standard B) – C) Complies with viscosity test
4	Specific gravity at 25 °C	–	–	0.818 min.   0.880 max.
5	Viscosity at 40 °C, mm <sup>2</sup> /s	–	–	3 min.   34.4 max.
6	Acidity / alkalinity	Not more than 0.1 ml of 0.1 M sodium hydroxide is required to change the colourless solution into pink	Not more than 0.1 ml of 0.1 M sodium hydroxide is required	Not more than 1 ml of 0.01 N sodium is hydroxide required to change colour of indicator to pink
7	Relative density	0.810 – 0.875	0.810 – 0.875	
8	Viscosity	–	25 – 80 mPa.s	
9	Dynamic viscosity at 20 °C	25 – 80 mPa.s	–	–
10	Polycyclic aromatic hydrocarbons	–	Absorbance of test solution remains < 1/3rd that of reference solution at 275 nm, throughout 260 – 420 nm wavelengths	Pass as per USP
11	Weight per ml at 25 °C	0.820 to 0.880 g	–	–
12	Light absorption at 240 – 280 nm	0.1 max.	–	–
13	Readily carbonisable substance	Complies	Complies	Complies
14	Solid paraffins	Complies	Complies	Complies
15	Sulphur compound	Complies	–	Complies
16	Specific gravity	0.860 – 0.904	–	–

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