

First choice emollient for natural formulations



## PRODUCT FEATURES

**GREEN PROFILE** - Jolee 7750 is derived from **natural building blocks** such as sugar cane/beet, wheat, barley and palm kernel oil. With these building blocks, Jolee 7750 participates in the green story as **readily biodegradable product**.

**EXCELLENT SPREADABILITY AND SENSORIAL PROFILE** - The low viscosity and quick absorption of Jolee 7750 results in **high spreading** and **quick penetration** properties. Furthermore, Jolee 7750 provides an **excellent silicone feeling** and has a **good skin compatibility**.

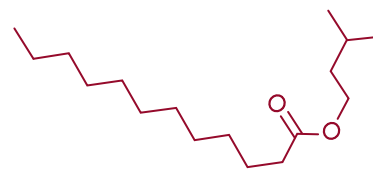
**DEGREASING POWER** - Jolee 7750 imparts a dry lubricating feel in the presence of large amounts of mineral oil or vegetable oils, i.e. it *de-oils* mineral oil and *degreases* vegetable oils. The product acts as an **anti-tacking** agent.

**GOOD SOLVATING POWER** - Jolee 7750 is a short chained ester which acts as a superior solubilizer of lipophilic cosmetic raw materials. At different ratios the compatibility with various solvents was investigated through a visual evaluation. The results show remarkable stability with frequently used oils in diverse applications like sun care, skin care and hair care.

Solvent:Jolee 7750	25:75	50:50	75:25
Sunflower oil (Radia 7363)	S	S	S
Propylene glycol (Radianol 4710)	I	I	I
Mineral oil	S	S	S
Isopropyl myristate (Radia 7730)	S	S	S
Dimethicone	S	S	S
Diisoamyl sebacate (Jolee 7751)	S	S	S
Ethanol	S	S	S
C8/C10 triglycerides	S	S	S

**Table 1:** Compatibility of Jolee 7750 with oils. **SOLUBLE** = forms a clear and uniform solution initially or becomes clear and uniform after mixing at 55-60°C and remains clear and uniform after 24 hrs at RT; **INSOLUBLE** = forms two distinct phases even after heating to 55-60°C; **DISPERSIBLE** = uniform and cloudy, possibly separates after 24 hours

Jolee  
7750



INCI Isoamyl laurate  
CAS 6309-51-9

## CHARACTERISTICS

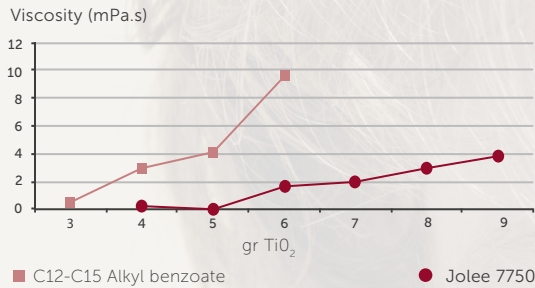
Physical form	Liquid
Color APHA	< 70
Dynamic viscosity 25°C	ca. 5 mPa.s
Kinematic viscosity 40°C	ca. 4 mm <sup>2</sup> /s
Density 25°C	ca. 0.8532 g/cm <sup>3</sup>
Refractive index 20°C	1.434 - 1.439
Surface tension 25°C	ca. 29 mN/m
Interfacial tension 25°C	ca. 25 mN/m

## SAFETY INFORMATION

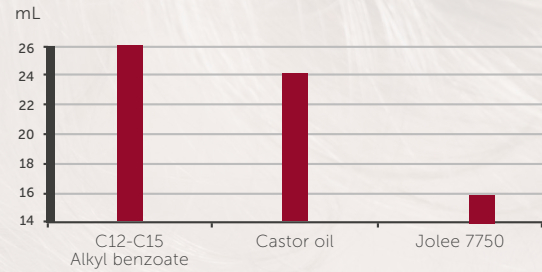
<b>HET-CAM REPORT</b> (Report reference 12E3084-1)	Comparable to esters from the same category
<b>Skin Patch test</b> (Report reference 12E3085-1)	Non-irritating
<b>Skin Sensibilization test</b> (Report reference DN-1297/12E3082)	Non-irritating
<b>AMES-test</b> (Method OECD Guideline 471)	Non-mutagenic / non pro-mutagenic

**PRACTICAL USE** - Jolee 7750 can be used to produce formulations during **cold and hot process methods**. It is often used as a primary oil with usage levels up to 80% as well as a characterizing ingredient at lower levels. Moreover, Jolee 7750 is easy to handle as a steady viscosity is reached when formulating with high concentrations of  $TiO_2$ .

**HIGH WETTING POWER** - Jolee 7750 acts as a **wetting agent** and **auxiliary suspending agent** for water-insoluble powdered products. In comparison with different benchmarks, Jolee 7750 proves to be a remarkable alternative to obtain smooth dispersions at low quantities.

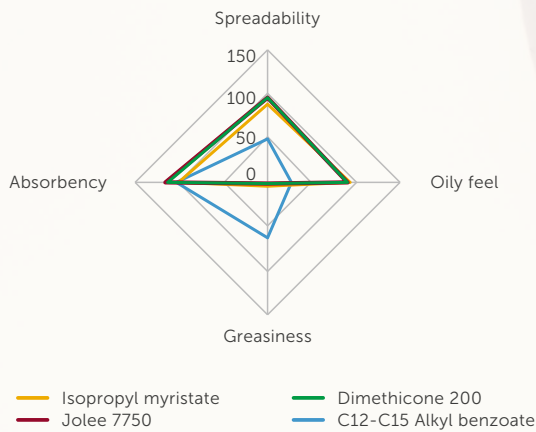


**Fig 1:** Viscosity and visual identification is monitored with increasing  $TiO_2$  concentration. Jolee 7750 shows a steady viscosity at high  $TiO_2$  concentrations, which can be translated into easy handling when formulating.



**Fig 2:** Volumes were measured to disperse 10 gram  $TiO_2$  to a smooth body. Remarkably less Jolee 7750 is needed to obtain a smooth dispersion.

### SENSORIAL PROFILE DURING RUBBING



### SENSORIAL PROFILE AFTER RUBBING

