

APPENDIX I : TECHNICAL REFERENCE C.D.R.O.

CDRO – CRUDE DEGUMMED RAPESEED OIL DIN 51605

| <i>Parameter</i> | <i>Method</i> | <i>Minimum</i> | <i>Maximum</i> | <i>Unit</i> |
|--|----------------------|--|----------------|--------------------|
| Visual Inspection | - | Limpid, no free water visible, no contaminations visible | | |
| Density at 15 °C | DIN EN ISO 3675 | 910.0 | 925.0 | kg/m ³ |
| Viscosity at 40 °C | DIN EN ISO 3104 | - | 36.0 | mm ² /s |
| Calorific Value, lower | DIN 51900-1,2 | 36.0 | - | MJ/kg |
| Iodine Value | DIN EN 14111 | - | 125 | g Iod/100g |
| Acid Value | DIN EN 14104 | - | 2.0 | mg KOH/g |
| Flash Point | DIN EN ISO 2719 | 220 | - | °C |
| Ignition Quality (DCN) | analog DIN EN 15195 | 40 | - | - |
| Oxidation Stability at 110 °C | DIN EN 14112 | 6.0 | - | h |
| Total Contamination | DIN EN 12662:1998-10 | - | 24 | mg/kg |
| Sulfur Content | DIN EN ISO 20884 | - | 10 | mg/kg |
| Phosphorous Content | DIN 51627-6 | - | 3.0 | mg/kg |
| Ca Content | DIN 51627-6 | - | 1.0 | mg/kg |
| Mg Content | DIN 51627-6 | - | 1 | mg/kg |
| Water Content | DIN EN ISO 12937 | - | 750 | mg/kg |
| Erucic Acid | C22: | - | 2,0 | mas-% |
| Free fatty acid (as oleic) | USP 24 | - | 1,0 | mas-% |
| Saponification value (number) DIN 51 559 | | - | 170-179 | mg KOH/g |