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## GLYCERINE

Batch dated: 06/06/2019  
Batch number: 2019235DEKT90  
Remarks: -

| Analysis  | Unit                   | min   | max        | Result     | Method of analysis         |
|---|------------------------|-------|------------|------------|----------------------------|
| Appearance  |                        |       | Colourless | Colourless | European Pharmacopoeia     |
| Appearance of solution  |                        |       | Clear      | pass       | European Pharmacopoeia     |
| Smell   |                        |       | Absent     | absent     | European Pharmacopoeia     |
| Esters  | ml 0.1 m HCl-solution  | 8,0   |            | 8,93       | European Pharmacopoeia     |
| Color (APHA)  | Hazen                  |       | 10         | 4          | ISO 6271                   |
| Water   | % (m/m)                |       | 0,5        | 0,059      | European Pharmacopoeia     |
| Refractive index @ 20°C   |                        | 1,471 | 1,474      | 1,471      | European Pharmacopoeia     |
| Density @ 20°C  | g/cm <sup>3</sup>      | 1,260 |            | 1,261      | European Pharmacopoeia     |
| Acidity   | ml 0.1 m NaOH-solution |       | 0,2        | 0,08       | European Pharmacopoeia     |
| Aldehydes   | mg/kg                  |       | 10         | Meets spec | European Pharmacopoeia     |
| Halogenated compounds   | mg/kg                  |       | 30         | Meets spec | European Pharmacopoeia     |
| Chlorides   | mg/kg                  |       | 10         | Meets spec | European Pharmacopoeia     |
| Sugars  |                        |       | Negative   | negative   | European Pharmacopoeia     |
| Acroleine, Glucose, Ammonium compounds  |                        |       | Negative   | negative   | REG(EU) 231/2012 no E422   |
| Assay   | % (m/m)                | 99,5  |            | 99,7       | European Pharmacopoeia     |
| Compliance with the items listed below is assured through regular monitoring analyses performed at an external lab. |                        |       |            |            |                            |
| Identity A, B, C, D   |                        |       | pass       |            | European Pharmacopoeia     |
| Arsenic   | mg/kg                  |       | max 0,1    |            | DIN EN 15763               |
| Mercury   | mg/kg                  |       | max 0,1    |            | SOP M 2507                 |
| Cadmium   | mg/kg                  |       | max 1      |            | DIN EN 15763               |
| Lead  | mg/kg                  |       | max 0,1    |            | DIN EN 15763               |
| Nickel  | mg/kg                  |       | max 20     |            | DIN EN 15763               |
| Sodium  | % (m/m)                |       | max 0,1    |            | DIN EN 15510               |
| Potassium   | % (m/m)                |       | max 0,1    |            | DIN EN 15510               |
| Sulfates  | mg/kg                  |       | max 20     |            | US Pharmacopoeia           |
| Sulphated ash   | % (m/m)                |       | max 0,01   |            | European Pharmacopoeia     |
| Impurity A (DEG)  | % (m/m)                |       | max 0,1    |            | European Pharmacopoeia     |
| Any other impurity retention time less Glyc   | % (m/m)                |       | max 0,1    |            | European Pharmacopoeia     |
| Total of all impurities retention time greater Glyc   | % (m/m)                |       | max 0,5    |            | European Pharmacopoeia     |
| Butanetriols  | % (m/m)                |       | max 0,2    |            | GC/MS                      |
| Acroleine   |                        |       | Confirms   |            | REG(EU) 231/2012 no E422   |
| Fatty acids and esters  | %                      |       | max 0,1    |            | Calculated as butyric acid |
| 3-MCPD  | mg/kg                  |       | max 0,1    |            | GC/MS                      |

This product complies with the requirements of the current version of the European Pharmacopoeia, USP, the EU Regulation 231/2012 for food additives (Glycerol (E422)), the EU feed legislation 68/2013 (feed materials No 13.8.2) and the Codex Alimentarius. Neither illegal food dyes nor other additives are added. Contaminants like dioxins, mycotoxins, PAH, PCB, pesticides meet the criteria.

We declare to the best of our knowledge the product is not subject to mandatory labelling, with observation of all legal and customary duties of The shelf life of BIOPETROL glycerine is 24 months EXW (date at Weight Certificate decisive) when stored and handled under appropriate

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