

CERTIFICATE OF ANALYSIS

Product Name : Glycerine
 Batch No. : 015/GLY/L/15
 Formula : C₃H₈O₃
 Cas No : 56-81-5
 Date Of Analysis : January 14,2013

| NO. | ITEM TEST | UNITS | METHOD | SPECIFICATION | RESULT |
|-----|---------------------------|-----------|-------------------|---------------|--------|
| 1. | Content | % | JOCS 2.2.2.4-90 | min 99.7 | 99.8 |
| 2. | Specific Gravity at 20 °C | – | SGM(DA-300) | min 1.2624 | 1.2638 |
| 3. | Color | APHA | JOCS 2.3.1.5-71 | max 5 | 5 |
| 4. | Fatty Acid & Esters | MI/50 g | USP 23 | max 0.2 | 0.1 |
| 5. | Ash content | % | JP 12. Glycerine | max 0.01 | Nil |
| 6. | Chloride | ppm | JIS K3351-1984 | max 10 | < 10 |
| 7. | Arsenic | ppm | JP-Conc.Glycerine | max 1.5 | < 1.5 |
| 8. | Heavy metals | ppm | SCRMS-1984 | max 5 | < 5 |
| 9. | Chlorinated compounds | ppm | JFA-Standard | max 30 | < 30 |
| 10. | Saponification Equivalent | meq/100 g | JIS K3351-1984 | max 0.2 | 0.1 |

Remark:
 This certificate refers to COA Maker

Manufacturer : Socimas Oleochemical

PT..Pancasakti Putra Kencana



SUDIRO S.Si.
 Quality Control