

### Methanol Spec from Iran:

| No. | Parameter                           | Test Method  | Specification                   |
|-----|-------------------------------------|--------------|---------------------------------|
| 1.  | Acetone mg/kg                       | ASTM E 346   | Max 30                          |
| 2.  | Acidity as Acetic Acid mg/kg        | ASTM D 1613  | Max 30                          |
| 3.  | Alkalinity as NH <sub>3</sub> mg/kg | ASTM D 1614  | Max 30                          |
| 4.  | Appearance                          | IMPCA 003-98 | Clear, free from suspended      |
| 5.  | Carbonizable Substance Pt-Co        | ASTM E 346   | Max 30                          |
| 6.  | Chloride mg/kg                      | IMPCA 002-98 | Max 0.1                         |
| 7.  | Color Pt-Co Scale                   | ASTM D 1209  | Max 5                           |
| 8.  | Distillation Range °C               | ASTM D 1078  | 64.5 — 65.5                     |
| 9.  | Ethanol Content mg/kg               | ASTM E 346   | Max 10                          |
| 10. | Hydrocarbon                         | ASTM D 1722  | Pass test                       |
| 11. | Nonvolatile Content mg/1000         | ASTM D 1353  | Max 8                           |
| 12. | Odor                                | ASTM D 1296  | Characteristic, free of foreign |
| 13. | Permanganate Time minute            | ASTM D 1363  | Min 60                          |
| 14. | Purity                              | IMPCA 00I-02 | Min 99.85 %                     |
| 15. | Specific Gravity 20/20 °C           | ASTM D 4052  | 0.792 — 0.793                   |
| 16. | TMA mg/kg                           | Gas          | Max 0.05                        |
| 17. | Total ion mg/kg                     | ASTM E 394   | Max 0.1                         |
| 18. | Water Content % wt                  | ASTM E 1064  | Max 0.1                         |