

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: 1,2-Dinitrobenzene,98%

ITEM NUMBER: D111111  
BRAND: Aladdin  
CAS NUMBER: 528-29-0  
MDL NUMBER: MFCD00007093  
FORMULA: C<sub>6</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub>  
MOLECULAR WEIGHT: 168.11

| TEST                                    | SPECIFICATION                                |         | TARGET<br>VALUE |
|-----------------------------------------|----------------------------------------------|---------|-----------------|
|                                         | MIN.                                         | MAX.    |                 |
| Appearance                              | Yellow to Orange to Brown Powder or Crystals |         |                 |
| Carbon by Elemental Analysis(anhydrous) | 41.5 %                                       | 43.3 %  | 43.3 %          |
| Infrared spectrum                       | Conforms to Structure                        |         |                 |
| Melting point                           | 116 ° C                                      | 119 ° C | 119 ° C         |
| Nitrogen by Elemental Analysis          | 15.8 %                                       | 17.2 %  | 17.2 %          |
| Purity(GC)                              | 98 %                                         | 100 %   | 100 %           |
| Solubility in CHCl <sub>3</sub>         | Clear, Yellow to Yellow-Green to Brown, C=5% |         |                 |