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Certified Company

Speciality Products Research Group

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TECHNICAL DATA SHEET

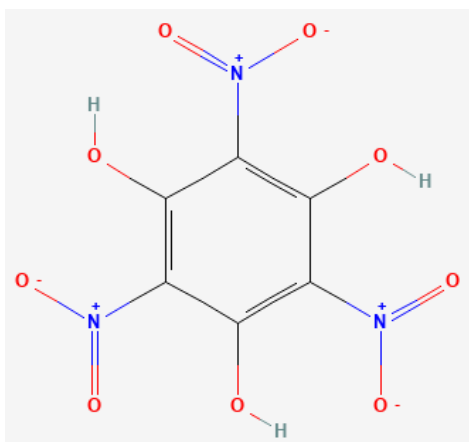
TRI NITRO PHLORO GLUCINOL (TNPG)

Trinitrophenol (TNPG or 2,4,6-trinitro-1,3,5-benzenetriol) is a highly nitrated aromatic compound which serves as a precursor or derivative in chemical synthesis and used in applications such as military weapon fuzes or as an initiator for Percussion caps in small caliber ammunition (bullets).

| | |
|--------------------|---|
| Synonyms: | 2,4,6-Trinitro-1,3,5-benzenetriol |
| CAS No.: | 4328-17-0 |
| Molecular Formula: | C ₆ H ₃ N ₃ O ₉ |
| Avg Mass: | 261.10 g/mol |
| IUPAC Name: | 2,4,6-trinitrobenzene-1,3,5-triol |

SPECIFICATIONS FOR TRI NITRO PHLORO GLUCINOL (TNPG)

| Sr No: | Characteristics | Specified Limits |
|--------|--|--|
| 1 | Appearance | Fine Yellow Powder free from dark material |
| 2 | Water Content of wet material, % by mass | 20 – 25 |
| 3 | TNPG Content (dry material), % by mass | 98% min |
| 4 | Melting Point ° C | 160 – 163 |
| 5 | Insoluble matter @ 25°C in: Water, Ethanol methanol | Nil |
| 6 | Soluble matter @ 25°C % by mass in i. Carbon Tetrachloride ii. Benzene | 0.05 max 1.55 max |
| 7 | Nitrates, % | Nil |
| 8 | Chloride calculated as Sodium Chloride, % | 0.05 max |
| 9 | pH of 10% aq. extract | 1.60 – 2.10 |



TRI-NITRO PHLORO-
GLUCINOL (TNPG)
CAS NO : 4328-17-0

For Speciality Products Research Group

Proprietor



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