

STYPHNIC ACID (TNR)

Leading worldwide specialist in the field of high explosives, EURENCO offers its customers a complete range of high explosives and compositions like styphnic acid, owing to high-tech manufacturing capabilities.

PRODUCT

- Trade name: styphnic acid or TNR
- Chemical name: 2,4,6-trinitro-1,3-dehydroxybenzene
- Chemical formula: $C_6H_3N_3O_8$
- EURENCO manufactures two different grades of styphnic acid determined by their melting point (MP), in accordance with MIL-T 5611 specification:
 - P Quality (or TNR Type 1): MP > 176°C
 - W Quality (or TNR Type 2): MP 170 - 176°C

CHARACTERISTICS

	TNR P	TNR W
Melting point (°C)	≥ 176	170 - 176
Acidity in H ₂ SO ₄ (%)	≤ 1	≤ 1
Water (%) *	> 20 %	> 20 %
Density	1.83	1.83
Purity (%)	≥ 97	≥ 97
Sensitivity to friction (N)	221	221
Impact testing (30 kg drop-hammer)	no propagation height > 4 m no reaction height > 4 m	no propagation height > 4 m no reaction height > 4 m

* Water rate is specific to each customer; without demand, standard rate is > 20%.

USES

TNR is used in the preparation of lead salts, for ignition compositions.