

MNT:

----- Reagents -----

Ammonium Nitrate: 0,076 kg

Sulfuric Acid: 0,141 L

Toluene: 0,080 kg

Water: 17 mL

Total Batch Size: ~ 0,286 L

----- Temperature -----

Starting: 25-30 °C

Finally: 50-55 °C

Final Reaction Time: 1.5 hours

----- Yeild -----

Theoretical yield (%): 97%

Theoretical yield (kg): 0,115 kg

Theoretical yield (L): 0,1 L

DNT:

----- Reagents -----

Ammonium Nitrate: 0,081 kg

Sulfuric Acid: 0,149 L

M.N.T: 0,115 kg

Water: 5 mL

Total Batch Size: ~ 0,29 L

----- Temperature -----

Starting: 50-55 °C

Finally: 80-85 °C

Final Reaction Time: 2.0 hours

----- Yeild -----

Theoretical yield (%): 97%

Theoretical yield (kg): 0,148 kg

Theoretical yield (L): 0,112 L

TNT:

----- Reagents -----

Ammonium Nitrate: 0,098 kg

Sulfuric Acid: 0,181 L

D.N.T: 0,148 kg

Water: 0 mL

Total Batch Size: ~ 0,338 L

----- Temperature -----

Starting: 80-85 °C

Finally: 115-120 °C

Final Reaction Time: 2.5 hours

----- Yeild -----

Theoretical yield (%): 95%

Theoretical yield (kg): 0,179 kg

Theoretical yield (L): 0,108 L