S ChatGPT

Supplier Price Data for Materials

- Dimethylformamide (DMF) TCI Chemical (Tokyo Chemical Ind.) lists DMF (99.8%) 25 mL at \\$17.00 1 . ChemicalBook data show AK Scientific DMF (500 mL) at \\$67.00 2 and Chem-Impex DMF (250 mL) at \\$11.20 3 .
- Toluene Sigma-Aldrich offers ACS-grade toluene: 500 mL for \\$41.37 and 1 L for \\$88.50 4.
- Acetic Anhydride The Science Company sells acetic anhydride (purified, 97%) 500 mL for \\$29.95
- Citric Acid Sigma-Aldrich lists citric acid (ACS reagent, ≥99.5%) 500 g for \\$89.80 6.
- **Piperidine** Sigma-Aldrich (via CP Lab Safety) offers piperidine 99% (ReagentPlus) 100 mL (case of 4 × 100 mL) at \\$246.41 (7) (≈\\$61.60 each).
- Magnesium Stearate ChemicalBook shows Chem-Impex sells magnesium stearate (USP, 90% basis) 250 q for \\$16.80 8 (Ambeed offers 1 kg for \\$25 9).
- Sodium Hydroxide (NaOH) Sigma-Aldrich lists NaOH pellets (ACS reagent, ≥97%) 500 g for \ \$85.20 10.
- Hydrochloric Acid (HCI) Lab Alley offers HCI 37% (ACS grade) 500 mL for \\$72.60 11 .
- Methanol ChemPure brand lists methanol 100% (HPLC grade) 4L for \\$55.00 12.
- Ethanol Sigma-Aldrich sells ethanol (≥95%) 1 gal (~3.8 L) for \\$133.00 13.
- Triethylchlorosilane (TES-CI) Spectrum Chemical lists 100 mL of TES (99%) at \\$1,114.28 14.
- Trimethylsilyl Cyanide (TMS-CN) Sigma-Aldrich sells 5 g of TMS-CN (98%) for \\$57.80 15.
- **Tapentadol HCl (IP)** PharmaCompass import data report Tapentadol HCl IP around \\$650–\\$925 per kg (e.g. Feb–Mar 2022) ¹⁶ ¹⁷ .

Each price above is from a real supplier quote or database (see references). Currency is USD unless indicated. (Suppliers are global and include lab chemical distributors and industry data sources.)

Sources: Cited vendor and chemical database pages 1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17.

1 N,N-Dimethylformamide 68-12-2 | TCI AMERICA

https://www.tcichemicals.com/US/en/p/D0722

2 3 N,N-Dimethylformamide price, buy N,N-Dimethylformamide - chemicalbook

https://www.chemicalbook.com/Price/N-N-Dimethylformamide.htm

4 Toluene ACS reagent, = 99.5 108-88-3

https://www.sigmaaldrich.com/US/en/product/sigald/179418?srsltid=AfmBOoqDF_EmU-v2J2YLoxpXrvmvXNagjaWCTf0kkyAr2Kq1JPqmb9y2

5 Acetic Anhydride, 500mL for sale. Buy from The Science Company.

https://www.sciencecompany.com/Acetic-Anhydride-500mL-P17552

6 Citric acid ACS reagent, = 99.5 77-92-9

https://www.sigmaaldrich.com/US/en/product/sial/251275?srsltid=AfmBOoofcgUyfW2G98DnjAxmSAGWdre4s1bMVB4rK5BHVq_33-kB6XF

7 Piperidine, Reagent Plus 99%, 100mL, case/4

https://www.calpaclab.com/piperidine-reagent-plus-99-percent-100ml-millipore-sigma/mil-104094-4x100ml? srsltid=AfmBOoreeR9wj-wsQBzq0Fv0XcShauUcdCULuNJ_6_b5hXN8l2jJOFKd

8 9 Magnesium stearate price, buy Magnesium stearate - chemicalbook

https://www.chemicalbook.com/Price/Magnesium-stearate.htm

10 Sodium hydroxide ACS reagent, = 97.0, pellets 1310-73-2

https://www.sigmaaldrich.com/US/en/product/sigald/221465? srsltid=AfmBOooquqompZveoyDgbtJ0dmJRgzbFAnKzmRLJ8IO5qlXK0SzZuYa1

11 Hydrochloric Acid 37% Solution, ACS Reagent Grade | Lab Alley

https://www.laballey.com/products/hydrochloric-acid-37-percent-solution-acs-grade?srsltid=AfmBOoqPlfViRI0bSuc-hzgUp6CbqYcaNjiwPQBorMcTkwCxbrzla7Uc

12 Methanol price, buy Methanol - chemicalbook

https://www.chemicalbook.com/Price/Methanol-2.htm

13 Ethanol | 64-17-5

https://www.chemicalbook.com/ChemicalProductProperty_EN_CB2362508.htm

14 HAZMAT (Dangerous Goods) - Triethylchlorosilane, 100mL

 $https://www.calpaclab.com/triethylchlorosilane-100ml-each/spc-t2087-100ml?srsltid=AfmBOopqikhfWTSWbLM_yuYav7lhp-a4wc0iqbeUbOLjOdpqjAe9oeNI$

15 Trimethylsilyl cyanide 98 7677-24-9

https://www.sigmaaldrich.com/US/en/product/aldrich/212849? srsltid=AfmBOorsUxZOuOC4HOk9vOIkttsqGgTBbQ3T_alBt3gZKIh4ToqQ17CP

16 17 Tapentadol | Price | per kg | USD | PharmaCompass.com

https://www.pharmacompass.com/price/tapentadol