UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Asam Akrilat dari Propilena dan Udara dengan Kapasitas 240.000 Ton per Tahun
Javier Theodore Setyono, Prof. Dr. Ir. Edia Rahayuningsih, M.S., IPU
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Andrushkevich, T. V. (1993). Heterogeneous catalytic oxidation of acrolein to acrylic acid: mechanism and catalysts. *Catalysis Reviews—Science and Engineering*, *35*(2),

6Wresearch. (2023). Indonesia Acrylic Acid Market (2025-2031) Outlook: Companies, Industry, Forecast, Size, Value, Growth, Trends, Analysis, Revenue & Share. 6Wresearch. https://www.6wresearch.com

American Petroleum Institute. (2002). API RP 505: Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone 0, Zone 1, and Zone 2 (1st ed.). API Publishing Services.

American Petroleum Institute. (2020). Welded tanks for oil storage (API Standard 650, 13th ed.).

American Society of Mechanical Engineers. (2019). Guidelines for water and steam in power plants (ASME PTG 12-2019).

Andrushkevich, T. V. (1993). Heterogeneous catalytic oxidation of acrolein to acrylic acid: mechanism and catalysts. Catalysis Reviews—Science and Engineering, 35(2), 213-259.

Arief, A. M. (2019). Ekspansi Produksi Asam Akrilat NSI Bakal Untungkan Industri Lokal. Retrieved November 5, 2020, from https://ekonomi.bisnis.com/read/20191121/257/1172899/ekspansi-produksi-asamakrilat-nsi-bakal-untungkan-industri-lokal

Aries, R. S., & Newton, R. D. (1955). Chemical engineering cost estimation. McGraw-Hill.

Arsiteqi. (2024). Standar biaya konstruksi bangunan industri per m2. Diakses dari https://www.arsiteqi.or.id

Badan Pusat Statistik. (2022). Statistik Perdagangan Luar Negeri Indonesia: Ekspor 2021, Buku I (Foreign Trade Statistical Export of Indonesia 2021, Book I) (Vol. 39). Badan Pusat Statistik. https://www.bps.go.id.

Badan Pusat Statistik. (2022). Statistik Perdagangan Luar Negeri Indonesia: Impor 2021, Buku I (Foreign Trade Statistical Import of Indonesia 2021, Book I) (Vol. 39). Badan Pusat Statistik. https://www.bps.go.id

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Asam Akrilat dari Propilena dan Udara dengan Kapasitas 240.000 Ton per Tahun
Javier Theodore Setyono, Prof. Dr. Ir. Edia Rahayuningsih, M.S., IPU
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Badan Pusat Statistik. (2025). Statistik Perdagangan Luar Negeri Indonesia: Ekspor 2024, Buku I (Foreign Trade Statistical Export of Indonesia 2024, Book I) (Vol. 42). Badan Pusat Statistik. https://www.bps.go.id

Badan Pusat Statistik. (2025). Statistik Perdagangan Luar Negeri Indonesia: Impor 2024, Buku I (Foreign Trade Statistical Import of Indonesia 2024, Book I) (Vol. 42). Badan Pusat Statistik. https://www.bps.go.id

Bank Indonesia. (2026). Statistik ekonomi dan keuangan Indonesia: Suku bunga kredit investasi bank umum April 2026. Diakses dari https://www.bi.go.id/seki

Brownell, L. E., & Young, E. H. (1959). Process equipment design: Vessel design. John Wiley & Sons.

Catline, J. A. (2015). GAP Guideline: Property Loss Prevention Data Sheets. FM Global.

Central Drug House (P) Ltd. (n.d.). Vanadium pentoxide: Material Safety Data Sheet (MSDS). New Delhi, India: Author.

Chemical Engineering Magazine. (2024). Chemical Engineering Plant Cost Index (CEPCI) 2024. Chemical Engineering.

Crowl, D. A., & Louvar, J. F. (1990). Chemical Process Safety: Fundamentals with Applications. Prentice Hall.

Data Insights Market. (2024). High Purity Acrolein Market's Consumer Insights and Trends. https://www.datainsightsmarket.com/reports/high-purity-acrolein-267622

Engineering ToolBox. (2003). Fuels - Higher and lower calorific values. https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html

Future Market Insights. (2025). Acrolein Market Size & Forecast, 2025-2035. https://www.futuremarketinsights.com/reports/acrolein-market

Institut Teknologi Indonesia. (2024). Data Proyeksi Konsumsi dan Impor Akrolein di Indonesia.

Kern, D.Q. (1950). Process Heat Transfer. McGraw-Hill.

Knight Frank Indonesia. (2025). Jakarta property highlights H2 2025: Industrial land price Cilegon-Serang. Diakses dari https://www.knightfrank.co.id

Lim, P. (2017). Chemical profile: Asia Acrylic acid. Retrieved November 5, 2020, from https://www.icis.com/explore/resources/news/2017/01/19/10071609/chemical-profileasia-acrylic-acid/

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Asam Akrilat dari Propilena dan Udara dengan Kapasitas 240.000 Ton per Tahun
Javier Theodore Setyono, Prof. Dr. Ir. Edia Rahayuningsih, M.S., IPU
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Louvar, J. F. (2011). Health and Environmental Risk Analysis: Fundamentals with Applications (2nd ed.). Prentice Hall.

Moran, S. (2017). Process Plant Layout (2nd ed.). Butterworth-Heinemann.

Mordor Intelligence. (2025). Acrylic Acid Market Size and Share Analysis - Growth, Trends and Forecasts (2025 - 2030). Retrieved July 21, 2025, from https://www.mordorintelligence.com/industry-reports/acrylic-acid-market

Nanjing Dotachem Co., Ltd. (2026). Glacial acrylic acid price CIF Asian ports Q1 2026. Diakses dari https://www.dotachem.com

National Center for Biotechnology Information (2025). PubChem Compound Summary for CID 6581, Acrylic Acid. Retrieved November 6, 2025 from https://pubchem.ncbi.nlm.nih.gov/compound/Acrylic-Acid.

National Fire Protection Association. (2021). NFPA 497: Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas. NFPA.

National Fire Protection Association. (2021). NFPA 58: Liquefied Petroleum Gas Code. NFPA.

Perry, R. H., & Green, D. W. (Eds.). (1997). Perry's chemical engineers' handbook (7th ed.). McGraw-Hill.

Pertamina. (2026, Juni 1). Harga solar industri HSD B40 wilayah Jawa periode Juni 2026. Diakses dari https://www.pertamina.com

Peters, M. S., Timmerhaus, K. D., & West, R. E. (2003). Plant design and economics for chemical engineers (5th ed.). McGraw-Hill.

Price-Watch. (2025). Propylene price Southeast Asia Q3 2025. Diakses dari https://www.price-watch.net

Prihardani, F., Fariana, N., Yogaswara, R. R., & Islamiyah, S. (2024). Evaluation of boiler feed water quality in tofu industry UD. FIT in Bocek Village. International Journal of Eco-Innovation in Science and Engineering (IJEISE), 5(1), 1-5. https://doi.org/10.33005/ijeise.v5i1.123

Prismane Consulting. (2025, June 19). Acrylic Acid Market Analysis, by Demand, by Applications [Baby Diapers and Personal Care Products] & Forecast Analysis, 2034 [Industry Report]. Prismane Consulting.

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Asam Akrilat dari Propilena dan Udara dengan Kapasitas 240.000 Ton per Tahun
Javier Theodore Setyono, Prof. Dr. Ir. Edia Rahayuningsih, M.S., IPU
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

PT PLN (Persero). (2026). Tarif tenaga listrik pelanggan non-subsidi golongan I-4 triwulan II 2026. Diakses dari https://web.pln.co.id/pelanggan/tarif-tenaga-listrik

Qasim, S.R., Motley, E.M., & Zhu, G. (2000). Water Works Engineering: Planning, Design, and Operation. Prentice Hall.

Ruppel, W., Wegerle, U., Tenten, A., & Hammon, U. (1998). U.S. Patent No. 5,739,391. Washington, DC: U.S. Patent and Trademark Office.

Sciencelab.com. (n.d.). Material Safety Data Sheet: Acrolein. ScienceLab.

Sigma-Aldrich. (2023). Safety Data Sheet: Molybdenum(VI) oxide (MoO3) (Product No. 203815, Version 8.1, Revision Date: 06.06.2023). Merck KGaA.

Sigma-Aldrich. (n.d.). Safety Data Sheet: Propylene. Merck KGaA.

Sinnott, R.K., & Towler, G. (2005). Chemical Engineering Design (5th ed.). Butterworth-Heinemann.

Smith, J. M., Van Ness, H. C., Abbott, M. M., & Swihart, M. T. (2018). Introduction to chemical engineering thermodynamics (8th ed.). McGraw-Hill Education.

Sulaiman, F., Santoso, M. I., Bahauddin, A., Pradana, M. F., Ridwan, A., & Kurniawan, B. (2019). Studi persaingan usaha pelabuhan utama di Banten. Cilegon: Centre for Transport System and Logistic (CTSL), Universitas Sultan Ageng Tirtayasa.

Terry, L. (2018). Chemical profile: US acrylic acid. Retrieved November 5, 2020, from https://www.icis.com/explore/resources/news/2018/10/25/10268694/chemical-profileus-acrylic-acid/?redirect=english

Towler, G., & Sinnott, R. (2021). Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design (3rd ed.). Butterworth-Heinemann.

Treybal, R.E. (1981). Mass Transfer Operations (3rd ed.). McGraw-Hill.

U.S. Bureau of Labor Statistics. (2024, Mei). Occupational outlook handbook: Chemical engineers. U.S. Department of Labor. Diakses dari https://www.bls.gov/ooh/architecture-and-engineering/chemical-engineers.htm

U.S. Department of Labor. (2023). Federal minimum wage. Diakses dari https://www.dol.gov

U.S. Department of Labor. (n.d.). Safety Data Sheet: Air (Compressed). Occupational Safety & Health Administration.

U.S. Environmental Protection Agency & National Oceanic and Atmospheric Administration. (n.d.). ALOHA (Areal Locations of Hazardous Atmospheres),

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Asam Akrilat dari Propilena dan Udara dengan Kapasitas 240.000 Ton per Tahun
Javier Theodore Setyono, Prof. Dr. Ir. Edia Rahayuningsih, M.S., IPU
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Student Version [Software]. U.S. EPA & NOAA. https://www.epa.gov/cameo/aloha-software

Ulrich, G. D., & Vasudevan, P. T. (2004). Chemical engineering process design and economics: A practical guide (2nd ed.). Process Publishing.

Walas, S.M. (1990). Chemical Process Equipment: Selection and Design. Butterworth-Heinemann.

Wong, S. (2013). Chemical Profile: Asia acrylic acid. Retrieved November 5, 2020, from https://www.icis.com/explore/resources/news/2013/03/01/9645676/chemical-profileasia-acrylic-acid/