



## DAFTAR PUSTAKA

- Airgas Hydrogen MSDS.** , 2018 , *Safety data sheet hydrogen* . USA : Air Linde.
- Awfa** ,2005,"Water Treatment Plant Design", McGraw Hill Book Company Inc. ,N.Y.
- Brownell,L,E.Young** ,1959,"Process Equipment Design", John Willey & Sons Inc.,N.Y.
- Csbp Ammonia MSDS.** , 2018 , *Safety data sheet Ammonia* . Australia : CSBP Limited.
- Geankolis,C.J.,**1983,"Transport Processes and Unit Operations 2<sup>ed</sup>",Allyn and Bacon Inc.,Bouston
- Hesse,H.C.,**1962,"Proses Equipment Design",8<sup>th</sup> prnt, Van Nostrand Reinhold Company Inc., New Jersey.
- Himmelblau,D.M.,** 1989."Basic Principles and Calculation in Chemical Engineering",5ed , Prentice-Hall International , Singapore.
- Kern,D.Q.,** 1965 , " Process Heat Transfer",In ted , McGraw Hill Book Company Inc. ,N.Y.
- Labchem Acetone MSDS.** , 2018 , *Safety data sheet Acetone* . Usa : Lab Chem.
- Labchem Water MSDS.** , 2018 , *Safety data sheet Water* . Usa : Lab Chem.
- Lamb, J.C. ,** 1985 , " Water Quality and Its Control " , John Willey & Sons Inc. , new York.
- Levnspiel ,O.,** 1962 , "Chemical Engineering Reaction " , 2 ed , John Willey & Sons Inc. , New York.
- Luyben.** , 2009 , *Design and Control of the Monoisopropylamine Process* . Betlehem : Department of Chemical Engineering Lehigh University.
- McCabe ,W.L.,** 1993 , "Unit Operation of Chemical Engineering" , 5<sup>th</sup> ed . Int. ed , McGraw-Hill Inc. , New York.
- Keyes, 1957,** " Industrial Chemical " . John Wiley Inc., London.
- Kirk Orthmer., 1993,** " Encyclopedia, of Chemical Processing and Design " , Vol.14 , Marcell Dekker Inc., New York.



Pra Rencana Pabrik Monoisopropylamine Dengan Proses Reductive  
Alkylation Menggunakan IPAS-1  
*Daftar Pustaka*

---

- Perry , Chilton ,** 1984 , “ Perry’s Chemical Engineer’s Handbook” , 6<sup>th</sup> ed , McGraw-Hill Book Company Inc., New York.
- Perry , Chilton ,** 1999 , “ Perry’s Chemical Engineer’s Handbook” , 7<sup>th</sup> ed , McGraw-Hill Book Company Inc., New York.
- Perry , Chilton ,** 2008 , “ Perry’s Chemical Engineer’s Handbook” , 8<sup>th</sup> ed , McGraw-Hill Book Company Inc., New York.
- Petter, M.S. ,Timmerhouse,K.D.,** 1959 , “Plant Desgn and Economic for Chemical Engineering” , 4<sup>th</sup> ed, McGraw-Hill Book Company Inc.,N.Y.
- Severn ,WH , 1954 ,** “Steam , Air , and Gas Power” , Modern Engineering Asia Edition , John Willey & Sons Inc., New York.
- Sugiharto ,** 1987 , “Dasar-Dasar Pengelolaan Air Limbah” , cetakan pertama Universitas Indonesia Press ,Jakarta.
- Ulrich ,G.D. ,** 1984 , “A Guide to Chemical Engineering Process Design and Economics” , John Willey & Sons Inc., New York.
- Underwood,A.L.,** 1980 , “Quantitative Analysis “, 4 ed , Prentice Hall Inc., London.
- US patent 6563004. ,** 2003, *Process for preparing monoisopropylamine*. USA: BASF.
- Van Ness, H.C., Smith, J.M.,** 1987 , “ Intoruction to Chemical Engineering Thermodynamics” , 5ed , McGraw-Hill Book Company , New York.
- Van Winkle ,M. ,** 1967 , “ Distilation “ , McGraw-Hill Book Company , N.Y.

## DAFTAR REVISI

1. Judul

Pra Rencana Pabrik Monoisopropylamine Dengan Proses Reductive Alkylation  
Menggunakan IPAS-1

2. Penampung Katalis (Tertera di Flowsheet)

3. Destilasi

- Destilasi I (Flowsheet)

Diameter : 34,24 ft atau 10,43 m

Tinggi : 73,21 ft atau 22,31 m

- Destilasi II (Flowsheet)

Diameter : 39,87 ft atau 12,15 m

Tinggi : 85,67 ft atau 26,11 m

- Destilasi III (Flowsheet)

Diameter : 36,56 ft atau 11,14 m

Tinggi : 74,5 ft atau 22,7 m

4. Tangki Penampung Ammonia dan Hidrogen (Flowsheet)

Surabaya, 17 Juli 2024

Mengetahui,

Dosen Pembimbing



Ir. Mu'tasim Billah, MS.

NIP. 19600504 198703 1 001

# PABRIK MONOISOPROPYLAMINE DENGAN PROSES REDUCTIVE ALKYLATION MENGGUNAKAN ARASA

