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LAPORAN PRAKTIKUM

SEDIMENTOLOGI



Dilaksanakan dan disusun sebagai salah satu syarat untuk mengikuti responsi praktikum mata kuliah Sedimentologi di Fakultas Perikanan dan Ilmu Kelautan Universitas Jenderal Soedirman

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FAKULTAS PERIKANAN DAN ILMU KELAUTAN
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PURWOKERTO

2016

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LAPORAN PRAKTIKUM II

" Manipulasi String & File"

Disusun untuk Memenuhi Mata Kuliah Algoritma dan Struktur Data
Dibimbing oleh Ibu Annisa Puspita Kirana, S. Kom, M. Kom

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UNIVERSITAS NEGERI MALANG
FAKULTAS TEKNIK
JURUSAN TEKNIK ELEKTRO
PRODI SI PENDIDIKAN TEKNIK INFORMATIKA
Februari 2017

LAPORAN PRAKTIKUM
LABORATORY METHODS IN MOLECULAR BIOLOGY

PEMBIMBING: Prof. DR. Dwi Suryanto, M.Sc



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2016



ok

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FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS PENDIDIKAN INDONESIA
BANDUNG
2018**

ADSORPSI PADA LARUTAN

L Tugman

Setelah melakukan percobaan ini, diharapkan mahasiswa mampu:

1. Melakukan percobaan mengenai proses adsorpsi asam asetat ke dalam karbon aktif.
 2. Membuat grafik berdasarkan hasil percobaan.
 3. Menentukan besarnya tetapan adsorpsi isotherm Freundlich berdasarkan percobaan.
 4. Mempraktekkan konsep mol dalam menghitung zat yang teradsorpsi.

III. Dasar Teori

Adsorpsi adalah peristiwa penyerapan suatu zat pada permukaan zat lain. Zat yang diserap disebut fase terserap (adsorbat) sedang yang menyerap disebut adsorben. Misalnya zat padat akan menarik molekul – molekul gas atau zat cair pada permukaannya. Hal ini disebabkan karena zat padat yang terdiri dari molekul – molekul tidak menarik dengan gaya van Der Waals. Jika ditinjau dari satu molekul, maka molekul itu akan dike lingi molekul yang lain yang tidak mempunyai gaya tarik seimbang. Karena salah satu arah tidak ada molekul lain yang menarik, akibatnya pada permukaan itu akan menarik molekul disekitarnya.

Ada dua jenis adsorpsi, yaitu adsorpsi fisika dan adsorpsi kimia. Adsorpsi fisika ini disebabkan oleh gaya Van der Waals yang ada pada permukaan adsorben. Panas adsorpsi fisika biasanya rendah dan lapisan yang terjadi pada permukaan adsorben biasanya lebih dari satu molekul, contoh : zat warna (adsorbat) oleh arang aktif (adsorben). Sedangkan pada adsorpsi kimia yaitu terjadinya reaksi antara zat yang diserap dengan adsorbennya contoh hidrogen pada platinum. Lapisan molekul yang terjadi pada permukaan adsorbennya hanya satu dan panas adsorpsinya tinggi. Adsorpsi disebut juga oleh :

Assistive technology

- ✓ Jenis adsorben
 - ✓ Jenis zat yang diadsorpsi
 - ✓ Konsentrasi
 - ✓ Luas permukaan adsorben
 - ✓ Temperatur

Meanwhile stirring aims to homogenize the solution and to activate activated carbon so that the carbon poripori will become larger and expand the surface of the carbon so that it facilitates the adsorption process. Adsorption is the process of accumulating the adsorbate on the surface of the adsorbent by the attractive force between molecules or chemical interactions or as a result of the force of the surface of the adsorbent solids that can attract gas or liquid molecules. Factors affecting the reaction rate include: (Pudjaatmaka, 1999) 1. In the case of contact, immediately flush the eye with many aria at least 15 minutes. The addition of this activated carbon serves to absorb the acetic acid contained in the solution. Potential Health Effects: Eyes: Can cause irritation. Mentrahoons let stand, which was carried out obtained concentration of CH₃COOH 0.5 m when allowed to stand 15 minutes the concentration of CH₃COOH was 0.325 m, when left for 30 minutes the concentration of CH₃COOH was 0.320 m, when allowed to stand 45 minutes of activated carbon used in this experiment with a greater surface area than in chunks or bars. Temperature The reaction rate of a chemical reaction takes place with rising temperatures. Grazie per L'teriesante Nei Nostri Servizi. Get medical assistance if symptoms appear. Swallowed: Do not try to vomit unless directed to do so by medical personnel. Avoid exposure to or fog. For example at room temperature, H and O molecules react slowly. $t = 60 \text{ minutes}, v_rata \text{ average} = 6.25 = 13.9 \text{ ml} \times 0.5 \text{ m} = 0.695 \text{ m} = 12.9 \text{ ml} \times 0.5 \text{ m} = 0.645 \text{ m} = 13.4 \text{ ml} \times 0.5 \text{ m} = 0.67 \text{ m} = 10.3 \text{ ml} \times 0.5 \text{ m} = 0.515 \text{ m} = 6.5 \text{ ml} \times 0.5 \text{ m} = 0.325 \text{ m} = 6.4 \text{ ml} \times 0.5 \text{ m} = 0.320 \text{ m}$ $0 \text{ Ml} \times 0.5 \text{ m} = 0.315 \text{ m} 10 \text{ ml} \times \text{m ch3coh m ch3cooh e}$. Active carbon is a good adsorbent for purification, eliminating color and smell, decoration, detoxification, filtering, separation and catalyst (Bansal et al., 1988). From the experimental data shows that most of the adsorbate solutions are more long the financing has a more small concentration of Ch3coh. Skin: wash the affected area for a minimum of 15 minutes. The CH₃COOH solution acts as an adsorbate, while carbon activated as an adsorbent. Help us to share our service with your friends. There are two types of concentrations of the CH₃COOH solution, that is to say 0.5 m and 1 M, so it can be seen that in the adsorption of CH₃COOH 0.5 m and CH₃COOH 1M each follows the reaction to three orders. Cold water may be able to use clothes before using again. This active carbon has a porous structure with a large surface, therefore it is expected to be effective in absorbing adsorbate. Physical and chemical adsorption stands out for the energy of adsorption, reversibility and thickness of the habitation layer. The PP indicator is a compound of white habur that shows the red color in the base and the colorless solution in the acid solution. Adsorption of low energy physics (20 kJ/mol) (Adamson, 1990). Petrucci, R.H., 1987, Principles of basic chemistry and modern volume applied 2, Erlangga, Jakarta Pudjaatmaka, A.H., 1999, Chemistry for the Sixth Edition University Volume 1, Erlangga, Jakarta Tony, B., 1987, physical chemistry for University, PT Gramedia Pustaka Utama, Jakarta. In general, the kinetic analysis of adsorption is divided into three parts, i.e. one, two and three. The kinetics of active carbon adhesion to acetic acid can be determined by measuring changes in the concentration of acetic acid according to time t . By analysis of the K price (Adsorption Balance Constant) or with a graph. Five Erlenmeyer each is full of 25 ml CH₃COOH 1 M while the other five erlemeyers each are filled with 25 ml CH₃COOH solution as well as 25 ml. Inhalation: Remove for fresh air. Abbiamo Bisogno Del Vostro Aiuto Per La Manutenzione in Questo Sito. Freudlich isotherm is based on the formation of a single layer of molecules of adsorbate molecules on the surface of the adsorbent with the ability to adsorb each different group. 4.: 40 g / mol: White. Appendix 1. Active carbon is an activated charcoal so that the pores are open and have high absorption. Isothermic adsorption Langmuir illustrates that the adsorption is according to the assumption that the adsorbent and adsorbate form a single layer, localized, the heat of the adsorption does not depend on the surface and surface closure of the adsorbent is homogeneous (Bird, 1985). Per mettere il nostro sito in esecuzione, abbiamo bisogno del vostro aiuto per coprire il nostro costo del server (Circca \$ 400/m), Una Piccola Donazione Ci Aiutera Molto. II. ADSORPSI CH₃COOH 1 M T (minute) 15 30 45 60 1440 IV.2 C (m) 0.695 0.645 0.675 0.67 0.515 Discussion In the kinetics of activated carbon adsorption to acetate in a solution is carried out at two types of concentrations in the same solution. Skin contact: In the case of contact, immediately wash the skin with lots of water sedizioni for 15 minutes by removing contaminated clothes and shoes. Whereas in the 1 M CH₃COOH solution which was allowed to stand for 15, 30, 45, 60 to 1440 minutes, a concentration was obtained respectively, namely 0.695; 0.645; 0.670 and 0.515 AD. The initial step, was prepared ten erlenmeyer. The purpose of this experiment will be conducted a study of active carbon adsorption kinetics against acetic acid in the solution. RESULTS AND DISCUSSION IV.1 RESULTS V CH₃COOH X M CH₃COOH = V NaOH X M NaOH 1. But in the 1 M CH₃COOH solution there is an irregularities in the hille of concentration at 30 minutes of planting, CH₃COOH concentration is obtained 0.645 m while at 45 dan 60 menit pendiaman of peroleh konsentrasi CH₃COOH 3COOH adalah 0,675. VII. $t = 1440 \text{ menit}, v_rata \text{ rata} = 10,3 \text{ 10 ml} \times \text{M CH3COOH M CH3COOH 2}$. Adsorbsi fisika melibatkan gaya antarmolekul (gaya Van der Walls, ikatan hidrogen) diantanggap sebagai dua sistem individu, sedangkan adsorpsi kimia melibatkan ikatan koordinasi yang merupakan hasil penggunaan elektron bersama antara adsorben dan adsorbat membentuk sistem homogen. Serius Terhirup: Evakuasi korban ke daerah yang aman secepatnya. Dapatkan segera perhatian medis. Jika sulit bernapas, berikan oksigen. Seperti yang diketahui bahwa indikator pp memiliki range pH antara 8,2- 10 (pH basa). VI. Filtrat yang dihasilkan kemudian ditambahkan indikator pp. Dalam isotherm adsorpsi, proses tersebut digambarkan dalam persamaan atau rumus. Pada orde dua nilai $R^2 = 0,9644$ dan nilai R^2 pada orde ketiga adalah $R^2 = 0,9727$. Luas permukaan adsorbsi akan berpengaruh terhadap banyaknya substansi adsorbat yang nantinya akan melekat. $t = 60 \text{ menit}, v_rata \text{ rata} = 13,4 \text{ 10 ml} \times \text{M CH3COOH M CH3COOH e}$. PENANGANAN : Kontak Mata: Periksa dan lepaskan jika ada lensa kontak. Cari bantuan medis segera. $t = 30 \text{ menit}, v_rata \text{ rata} = 6,4 \text{ 10 ml} \times \text{M CH3COOH M CH3COOH c}$. Residu dapat membuat wadah kosong berbahaya. Jika tertelan, jika sadar, berikan banyak air segera dan memanggil seorang dokter atau pusat kendali racun. Penggunaan indikator pp dikarenakan reaksi yang terjadi yakni antara CH₃COOH (asam lemah) dan NaOH (basa kuat) sehingga akan terbentuk larutan yang cenderung bersifat basa dan menunjukkan perubahan warna bening menjadi merah muda pada saat proses titrasi mencapai titik ekivalen. Sehingga berdasarkan nilai intersep yang diperoleh dapat kita ketahui bahwa pada adsorpsi CH₃COOH 0,5 M mengikuti orde reaksi tiga. Hindari kulit dan kontak mata. Jika korban tidak bernafas, lakukan pernafasan dari mulut ke mulut. Tetap hangat, persamaan laju reaksi dalam reaksi kimia A + B -> AB. Peristiwa kinetika adsorpsi dapat Concentration of species adsorption on changes in time. Never give anything through the mouth to a conscious victim. Longer sowing, more substances are adsorbed. WARNING: This can be dangerous for people who provide mouth-to-mouth (resuscitation) if ingredients are poisons, infections or corrosives. The active carbon in the solution causes an attractive force between adsorbed and adsorbent molecules (physical chemical bonds) during the plantation. Order is affirmed the graphic relationship between LN C and T that is a straight line with Slope K with LN Co. Intersep Order two states the relationship between 1/C and T that is a straight line with Slope K and Intersep 1/Co. While order three states the relationship between 1/c² and T which is a straight line with 2K slope and 1/CO₂ intersep (Tony, 1987). Subsequently, the mixture is left in a consecutive time 60 minutes, 45 minutes, 30 minutes and 15 minutes. This is consistent with what has been explained that the longer it is fundamental, the number of adsorbsis is also increasingly because of the absorption of perfect molecules. If it's hard to breathe, give oxygen. Thus the equation of the general reaction speed is written as follows: (Petrucci, 1987) $r = k [a]^m [b]^n$ with r : reaction speed k : constant reaction speed m and n partial order of each reagent. Adsorption can occur between solids with liquid, solid with gas, liquid with liquid, liquid with gas. These differences can be influenced by different factors, including the active carbon used has experienced boredom so that absorption is reduced. Addorpsi ch3cooh 0.5 m Based on these results, each chart can be made in order one, two and three. Meanwhile, in the adsorption of 1m CH₃COOH with the same steps to discover the order of reaction. Filtering aims to separate particles between results emerc atanimatnoc ellep alled otinemirtsev e etnattefnisid enopas noC . oirotaripser ottart la enoizatirri erasuac $\tilde{\Delta}$ up enoizalani . elibinopsid "A non amirpetna'l ,ocirac led emirpetna id enoizazzinagrO . opmet id Ätinu anucsac id enoizaer allen etlovnioe eznatsos id enoizartecnoc allen itnemaibmac artsom enoizaer id Äticolev aL aciroet esaB .auqca ni Ätilibus al eredev :)1 = RIA(31.2 :F)F $\tilde{\Delta}$ 4,316(C $\tilde{\Delta}$ $\tilde{\Delta}$ 323 :F)F $\tilde{\Delta}$ 4,0352(C $\tilde{\Delta}$ $\tilde{\Delta}$ 8831 :5.31]CISAB .HCOM(erosivrepus etnetsissa'led azneconoC 5102 erbotto 5 ,atrakaygoY acifitar id oilgoF .adderf auqca'l atazzilitu eresse $\tilde{\Delta}$ AuP .aicnalib ocitilana e oigoloro id ortev ,ovitas rehceb ad ortev (lm 052 ,ortev id otubmi ,onirusim id lm 52 ,reyemnelrE id lm 052 ,lm 05 ad etteruB iuc art itnemurts isrevit itazzilitu onognev .otnemibrosda id acitenic id otnemirepse otseuq nl itnemurtS 1.III elatnemireps aigolodoteM .3459,0 "A onu endro ni 2R id erolav II .enoizalotit al etnarud etnelaviue otntp li eranirnreted len erorre nu "A'c ,ertlonI .inotrosdaid opod)c(enoizartecnoc e)t(opmet li art enoizaler alled ocifarg nu odnasu atanirnreted eresse $\tilde{\Delta}$ up otnemibrosda id acitenic al otnemirepse'llad uitnetto itad noc O2H + ANOOC 3HC :etneugees al "A HOaN e hooC3 HC art enoizalotit al etnarud acifirev is ehc enoizauqe'L .M1 e HOOC3HC M 5,0 id inoipmac euqnic onos iC .otamref "A es oripser li odnauq elaicifitra enoizaripser erinroF ;eraripser eliciffid "A es onegissso iaD .assets al ais enoizulos anucsacai enoizatiga id)aznetsiser(Äticapac al ehc odom ni erid a elav ,acitengam enoizatiga'l odnusatiugese eneiv enoizatiga'L .I enoizalotit ,otnemibrosda ,acitenic :evaihc eloraP .ovitta oinobrac otnuigga ah HOOC3HC noc reyemnelrE 5 ingo otnemirepse otseuq nl .enoizaer id endro ert li euges HOOC3HC M1 id otnemibrosda'l hec erepas omaissop otnemirepse otseuq noC .ovitta oinobrac la itagel ittartse irtla noc ogoul otuva ah ehc itnemaibmac itnemaibmac i etnaruD .ovitsegid oigasid erasuac onossop :etitulgid perlulah tiap molukel-molekul yang beaksi untuk bertarakan ketika bergerak secara acak. Hal ini dapat kita tinjau dari volume NaOH 0.5 M yang digunakan lebih besar dari 10 ml volume melebihi CH₃COOH yang dititrasi. Pada setiap erlenmeyer ditambahkan 2 gram karbon aktif lalu diaduk selama 1 menit. Suatu katalis mempengaruhi kecepatan reaksi dengan salah satu jalur dengan pembentukan senyawa senyawa (katalisis homogen) atau dengan adsorpsi (katalisis heterogen). John Wiley and Sons, New York Bansal, C.R., Donnet, J.B., Stoekl, F., 1988, Active Carbon, Marcel Dekker Inc., New York Bird, T., 1985, Physical Chemistry, Gramedia, Jakarta. Konsentrasi Laju reaksi dinyatakan sebagai laju berkurangnya konsentrasi suatu pereaksi atau bertambahnya konsentrasi suatu prodotto. DAFTAR PUSTAKA Adamson, A.W; 1990, Surface Physics Chemistry, IV and Kholidin LABORATORIUM KIMIA FISIKA FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS GADJ MADA YOGYAKARTA 2015 INTISARI KINETIKA ADSORBSI SULFAH Addoption CH₃COOH 1 M a. $t = 15 \text{ menit}, v_rata \text{ rata} = 13,9 \text{ 10 ml} \times \text{M CH3COOH M CH3COOH 3}$. Sync:24161/AP/807563/41/haflus : Aman :he lo he is curtianunya akan berpengaruh terhadap adsorpsinya. III.2 Bahan Bahan yang dipergunakan pada percobaan kinetika adsorpsi adalah larutan NaOH 0.5M, larutan CH₃COOH 1N, indikator pp, karbon aktif, dan kertas saring. $t = 1440 \text{ menit}, v_rata \text{ rata} = 3,75 \text{ 10 ml} \times \text{M CH3COOH M CH3COOH 3}$. Sync:24161/AP/807563/41/haflus : Aman :he lo he is exprosing achynik 1 akisif aimifi mukitkarp naropal .Radadas can't gnaro adapetek tupapa tuypayuulam haletes HOOC3 HC isartnesok iuhatekid tapad akam M 5,0 HOaN emulov nakrasadreB .M 5,0 HOaN nakanuggnem naged isartidit nad tartlif libmaid kutnu gnirasid natural uti haleteS .nagnabmitsek iapacnem nad anrupmes gnuignalreb tapad nebrodsda nad tabrodsda aratna naakumrep adap idajret gnades gnay isprosda sesorp raga utiay ini namaidnep amatu naujut .fitka nobrak halada neBrosda iabes isgnufreb gnay nakgnades tabrodsda iabes m 1 hooc3hc nad m 5,0 hooc3hc natural haalada id , 041 lpmas , Nadd kudaid was thrown lepmas gnifessamgniss malaek-batidd fitka nobrak .pp rotatni Setet 2 nad aytartlii lm 01 libmaid alul Gniarsid Tubsmac ,Ayntujnales .hooc3hc natural I amarnesnk nanurunep aynada naged iuhateret tapad tuberet lah .c hooc3hc m x x 0 01 9,21 . Citten naturally malad malad tatesa masa padahret fitka nobrakda akenek naabocarep naabocarep rudesorp 3.III .) 2891,KICSO (nelavok nad nad ,kantottkele ayag ,bofordih ayay snuyam snuyay ma nuskelt nuskelt nuskelt snuyay matnayam nuskelt ninay matnayay mata ti nagnayam ngayag malaD .naiakap isanimatnokret gnay supaH .IIIV) hafluS (nikitkarP) nidilohK .gnineb anrawreb gnay tartlif helorepid aggnihes nagniraynep sesorp nakukalid ,adebreb gnay utkaw gnales adap gnuusgnalreb gnay namaidnep sesorp haleteS .tinem 0441 nad 06 ,54 ,03 ,51 amales utiay adebreb gnay Ut gnaw gnatner uata ISIARV DEPARTED Uluhad Hibelret naked kuadaid hat gnay natural : Mipa/ chemistry day/ date: Monday 21 September 2015 Group: III (14.00-17.00) Assistant Name: Moch. $t = 45 \text{ minutes}, v_rata = 13,5 \text{ 10 ml} \times \text{m ch3coh m ch3coh d}$. $t = 15 \text{ minutes}, v_rata = 6,5 \text{ 10 ml} \times \text{m ch3coh m ch3coh b}$. You can download the card by clicking the button above. We are a non -profit group that manages this website to share the documents. The adsorption process is described by the isothermal equation of adsorption between the liquid phase and the solid phase. Dissolve easily in cold water. In search of medical inhalation immediately: if inhaled, move it in fresh air. The first emergency procedures for action aid and first aid: eyes: water with water for a minimum of 15 minutes, collect and reduce the eyelids occasionally. Keenan, W.C., 1999, chemistry for the university of the sixth Volume 2 edition, Erlangga, Jakarta Oscik, J., 1982, Adsorption, Ellis Horwood Limited, England. Receive medical care in case of irritation. $t = 45 \text{ minutes}, v_rata = 6,3 \text{ 10 ml} \times \text{m ch3coh m ch3coh d}$. If you don't breathe, give artificial respiration. After the experimental data were made in the chart of the value R 2 in the order of order one, $R^2 = 0,9987$. Cover the skin irritated with something softening. The increase in the reaction speed can be explained in part more quickly and often the molecules move at higher temperatures so that they have enough energy to react. ADSORPSI CH₃COOH 1 M Gravik in C VS T 0 -0.5 0 200 400 600 800 1000 1200 1400 1600 -1 LN C -1.5 F (x) = -0x -13 $\tilde{\Delta}$ ² = 1 -2 t gravik 1/c vs t 6 5 5 5 5 F (x) = 0x + 3.08 $\tilde{\Delta}$ ² = 1 4 1/C 3 linear () 2 1 0 0 200 400 600 800 1000120014001600 t (time) Gravik 1/C2 30 f (x) = 0.01x + 9.39 $\tilde{\Delta}$ ² = 1 20 1/C2 Linear () 1 0 0 0 200 400 600 800 1000120014001600 t (time) 2. commonly used adsorption isotorma is Freudlich isoterma and isoterma of Langmuir. : [. reaction that occurs will be irreverereferefereble (can not be reversed) due to a strong bond between small particles terlepas dari adsorban dengan adsorbat. Langkah terakhir adalah dilakukan proses titrasi dengan NaOH 0,5 M. PENCEGAHAN KHUSUS Tindakan pencegahan yang harus diambil dalam penanganan atau menyimpan: Simpan di atas 62F, jauh dari langsung panas, pengapian sumber dan oksidasi. Tabel Adsorpsi 0,5 M t (menit) C (M) 15 30 45 60 1440 ln C 0,325 0,32 0,315 0,313 0,188 = 6,25 ml x 0,5 M = 0,313 M = 3,75 ml x 0,5 M = 0,188 M 1/C 1,12393 -1,13943 -1,15518 -1,16155 -1,20731 28,29335 ln C -0,36384 0,4385 -0,39304 -0,40048 -0,66359 1/C 1,438849 1,550388 1,481481 1,492537 1,941748 1/C 2,070286 2,194787 2,227668 3,770384 4. Dapatkan perawatan medis dengan segera. Longgarkan pakaian yang ketat seperti kerah, dasi, ikat pinggang atau ikat pinggang. (Deliquescent padat.) .berbau. Adsorpsi CH₃COOH 1 M Gravik ln C vs 0,1 0 200 400 600 800 1000120014001600 -0.2 -0.3 ln C -0.4 f(x) = -0x -0.39 -0.5 $\tilde{\Delta}$ ²A = 0.95 -0.6 -0.7 Linear () t(waktu) 2.5 2 f(x) = 0x + 1.48 $\tilde{\Delta}$ ²A = 0.96 1.5 1/C 1 Linear () 0.5 0 0 200 400 600 800 1000120014001600 t (waktu) Grafik 1/C2 vs t 4 f(x) = 0x + 2.18 $\tilde{\Delta}$ ²A = 0.97 3 1/C2 2 Linear () 1 0 0 500 1000 1500 2000 t (waktu) MSDS Natrium Hidroksida (NaOH) SIFAT FISIKA dan KIMIA : Keadaan fisik dan penampilan Bau Molekul Berat Warna pH (1% soln / air) Titik Didih Melting Point Spesifik Gravity Properti Dispersi Kelarutan : Solid. Nilai R2 pada orde dua adalah R2 = 0,9996 sedangkan pada orde tiga memiliki nilai R2 = 0,9999 dan paling mendekati 1 diantara yang lain. 3. KESIMPULAN Berdasarkan hasil percobaan kinetika adsorpsi yang telah dilakukan dapat disimpulkan bahwa pada larutan CH₃COOH 1 M yang diadsorpsi saat didiamkan 15 menit konsentrasi CH₃COOH yaitu 0,695 M, saat didiamkan 30 menit diperoleh CH₃COOH yaitu 0,645 M, saat didiamkan 45 menit diperoleh konsentrasi CH₃COOH yaitu 0,675 M, saat didiamkan 60 menit diperoleh konsentrasi CH₃COOH 0,515 M. Pada CH₃COOH 0,5 M saat didiamkan 15 menit konsentrasi CH₃COOH yaitu 0,325 M, saat didiamkan 30 menit diperoleh konsentrasi CH₃COOH yaitu 0,315 M, saat didiamkan 45 menit diperoleh konsentrasi CH₃COOH 0,313 M dan saat didiamkan 60 menit diperoleh konsentrasi CH₃COOH 0,175 M. Hal-hal yang memengaruhi proses adsorpsi yaitu adsorben, konsentrasi, tindakan pencegahan lain, Jangan menggunakan kantong plastik dan kantong plastik dengan adsorben, dan kantong plastik dengan adsorben kimia. 2. Mengisi kantong yang

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