

**PRAKTIKUM ANALISIS KADAR AIR DAN KADAR ABU TOTAL
FAKULTAS TEKNOLOGI INDUSTRI PERTANIAN
UNIVERSITAS PADJADJARAN**

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ABSTRACT

The water level an ingredient food is combined water free and water adsorbed in the material. The ashes is inorganic substances the rest of the results of burning that were closely related with the mineral content on the material. A test to refine to ashes long dumped there from the nature of all that important to be done immediately in order to understand the goodness and badness of an ingredient food special market operation or to be consumed or uncultivated state of. The purpose if the practicum is to know the water level and the ashes in some samples. The methodology will be used to analyze the moisture content of is gravimetric while the nature of all that a calx by dry ash level. The result of the practicum show

The results of lab work indicate the average values the water level (wb to and db) flour is higher for the constellation 11,61 % and the lowest of the low namely 1,42 % baby porridge. While the water is highest levels are flour the constellation 11,61 % and the lowest 1,42 % baby porridge.

Keywords: *Ash content, gravimetric, volumetric, water level*

PENDAHULUAN

Analisis Kadar Air

Air merupakan komponen penting dalam bahan pangan karena air dapat memengaruhi *acceptability*, kenampakan, kesegaran, serta cita rasa pangan. Didalam beberapa pangan, air ada dalam jumlah yang relative besar, misalnya didalam beberapa buah-buahan dan sayuran mencapai sekitar 90%, susu segar sekitar 87%, dan daging sapi sekitar 66% (Legowo dan Nurwanto, 2004). Berbeda halnya dengan pangan kering seperti kacang-kacangan, tepung, susu bubuk, atau bahan pangan kering lainnya yang memiliki kandungan air yang lebih rendah.

Kandungan air dalam bahan pangan juga memengaruhi daya tahan bahan makanan terhadap serangan mikroba yang dinyatakan dengan Aw yaitu jumlah air bebas yang dapat digunakan oleh makroorganisme untuk pertumbuhannya (Winarno, 2004). Adanya kandungan air dalam bahan pangan perlu mendapat perhatian khususnya pada

bahan pangan yang kering, hal ini dikarenakan kenaikan sedikit air saja pada bahan pangan tersebut dapat mengakibatkan kerusakan, baik akibat reaksi kimiawi maupun pertumbuhan mikro-organisme sehingga diperlukan pengujian kadar air pada bahan pangan tersebut agar kita dapat merumuskan bagaimana penanganan yang meliputi penyimpanan, proses pengolahan, pengemasan ataupun penentuan umur simpan dari bahan pangan itu sendiri.

Pengujian kadar air dapat dilakukan dengan berbagai cara, yaitu diantaranya bisa dilakukan dengan metode gravimetri dan juga volumetri. Metode gravimetri bisa digunakan untuk semua bahan atau produk pangan kecuali produk yang mengandung senyawa volatile (mudah menguap) atau produk yang terdekomposisi/rusak pada pemanasan 100°C (Legowo dan Nurwanto, 2004). Prinsipnya adalah mengeringkan bahan dalam oven pada suhu tertentu sehingga semua air menguap yang

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Kimia Analisis Dasar Fundamentals of Analytical Chemistry Meyci Trisna, Edi Kurniawan, Nina Hartati, Anjar Siti Mashitoh, 2025-06-06 Kimia Analisis Dasar Fundamentals of Analytical Chemistry adalah buku panduan komprehensif yang menyajikan dasar-dasar penting dalam kimia analisis mulai dari konsep teoritis hingga penerapan praktis di laboratorium. Buku ini disusun secara sistematis dalam dua belas bab yang mencakup pengantar kimia analisis dan pengelompokannya, prinsip stoikiometri, larutan, peralatan laboratorium, serta metode analisis klasik dan modern. Pembaca akan dipandu memahami berbagai teknik penting seperti analisis kualitatif dan kuantitatif, gravimetri, volumetri, titrasi redoks, titrasi pengendapan, argentometri, hingga kompleksometri. Tidak hanya itu, buku ini juga membahas aspek penting seperti galat dalam analisis, pemilihan metode yang tepat, dan strategi pemisahan analitik. Ditujukan bagi mahasiswa, dosen, dan praktisi kimia, buku ini memberikan pemahaman yang mendalam dengan pendekatan yang mudah diikuti dan kaya akan ilustrasi aplikatif. Dengan cakupan yang luas namun terstruktur, buku ini menjadi referensi ideal dalam membangun fondasi kuat di bidang kimia analisis.

Jurnal pascapanen dan bioteknologi kelautan dan perikanan, 2012 Studies on fishery technology and marine biotechnology in Indonesia

Aplikasi Kimia Analisis untuk Farmasi Amalia Khairunnisa, M.Sc., apt. Fadlilaturrahmah, S.Farm., M.Sc., Dr. apt. Samsul Hadi, S.Farm., M.Sc., 2023-10-17 Buku Aplikasi Kimia Analisis Untuk Farmasi ini berisi topik dasar Kimia Analisis yang langsung diaplikasikan untuk penentuan kadar suatu senyawa, baik senyawa obat maupun sediaan farmasi lain. Buku ini berisi materi yang mudah dipahami dan sering digunakan dalam suatu teknik analisis kimia, meliputi analisis kation dan anion, identifikasi senyawa obat dengan Kromatografi Lapis Tipis (KLT), penetapan kadar asam benzoat secara titrasi asam basa, penetapan kadar Thiamin HCl dengan argentometri, serta penetapan kadar Antalgin secara iodometri. Buku ini tidak hanya berisi teori dasar, melainkan aplikasi dalam percobaan dan perhitungan suatu metode analisis. Dengan buku ini, diharapkan mahasiswa baik dalam bidang Farmasi, Kimia, dan bidang lain yang terkait, dapat memahami teknik analisis dasar yang sangat berguna untuk bidang pekerjaan yang akan datang.

Bahan Ajar Kimia Wirausaha Ikan Mas Dr. Diah Kartika Sari, M.Si., Drs. K. Anom W. M.Si., Prof. Drs. Tatang Suhery, M.A., Ph.D., Drs. Made Sukaryawan, M.Si., Ph.D., Eka Ad'hiya, S.Pd., M.Pd., Dr. Sofia, M.Si., Fera Rahma Sari, S.Pd., Maefa Eka Haryani, S.Pd., M.Pd., 2024-03-26 Bahan Ajar ini menggunakan pendekatan STEM dan dapat meningkatkan ekonomi masyarakat. Bahan Ajar ini melatih mahasiswa dalam menyusun rencana usaha. Semoga Bahan Ajar ini dapat bermanfaat bagi pembaca dan diharapkan mahasiswa memiliki sikap ingin berwirausaha sebagai usaha sampingan selain menjadi guru kimia.

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