

REFERENCE

- Ahmad, A., Arshad, N., Ahmed, Z., Bhatti, M. S., Zahoor, T., Anjum, N., Ahmad, H., & Afreen, A. (2014). Perspective of Surface Active Agents in Baking Industry: An Overview. *Critical Reviews in Food Science and Nutrition*, 54(2), 208-224. doi: 10.1080/10408398.2011.579697
- Akkaya, M. (2018). Fatty acid compositions of sunflowers (*Helianthus annuus* L.) grown in east Mediterranean region. *Rivista Italiana Delle Sostanze Grasse*, 95, 239-247
- Alonso, A., Ruiz-Gutierrez, V., & Martínez-González, M. (2006). Monounsaturated fatty acids, olive oil and blood pressure: Epidemiological, clinical and experimental evidence. *Public health nutrition*. 9. 251-7. 10.1079/PHN2005836.
- Beleia, A., Miller, R. A., & Hosney, R. C. (1996). Starch Gelatinization in Sugar Solutions. *Starch - Starke*, 48(7-8), 259-262. DOI: 10.1002/star.19960480705
- Bourne, M. (2002). *Food Texture and Viscosity: Concept and Measurement*. London, UK: Academic Press.
- Callaway, J. (2014). Biscuit or cookie?. Retrieved from <https://blog.oxforddictionaries.com/2014/05/27/biscuit-vs-cookie/>
- Canalis, M. S. C., Steffolani, M. E., Leon, A. E., & Ribotta, P. D. (2016). Effect on Different Fibers on Dough Properties and Biscuit Quality. *Journal of the Science of Food and Agriculture*, 97(5), 1607-1615. doi: 10.1002/jsfa.7909
- Cervenka, L., Brozkova, I., & Vytrasova, J. (2006). Effects of the Principal Ingredients of Biscuits upon Water Activity. *Journal of Food and Nutrition Research*, 45(1), 39-43
- Chevallier, S., Colonna, P., Buleon, A. & Della Valle, G. (2000). Physicochemical Behaviors of Sugars, Lipids, and Gluten in Short Dough and Biscuit. *Journal of Agricultural and Food Chemistry*, 48, 1322-1326. DOI: 10.1021/jf990435
- Davidson, I. (2016). *Biscuit Baking Technology: Processing and Engineering manual* (2nd Ed.). London, UK: Elsevier Ltd
- Demirkesen, I. (2016). Formulation of Chesnut Cookies and Their Rheological and Quality Characteristics. *Journal of Food Quality*, 39, 264-273. doi: 10.1111/jfq.12209
- Deosakar, S.S., Khedkar, C.D., & Kalyankar, S. D. (2016). Butter: Manufacture. *The Encyclopedia of Food and Health*, 1, 529-534. DOI: 10.1016/B978-0-12-384947-2.00094-5 529
- Devi, A. & Khatkar, B. S. (2016). Physicochemical, rheological and functional properties of fats and oils in relation to cookie quality: a review. *J Food Sci Technol*, 53(10), 3633-3641. DOI 10.1007/s13197-0162355-0
- Devi, A. & Khatkar, B. S. (2017). Effects of fatty acids composition and microstructure properties of fats and oils on textural properties of dough and cookie quality. *J Food Sci Technol*. DOI 10.1007/s13197-017-2942-8
- Eissa, A. H. A., & Khalik, A. A. A. (2012). Understanding Color Image Processing by Machine Vision for Biological Materials. *Structure and Function of Food Engineering*, 227-274. doi: <http://doi.org/10.5772/50796>

- Elliott, B. (2016). What are the Best Substitutes for Butter?. Retrieved from <https://www.healthline.com/nutrition/best-butter-substitutes>
- European Union, European Commission. (2006). Regulation (Ec) No 1924/2006 of the European Parliament and of the Council of 20 December 2006 on Nutrition and Health Claims Made on Foods. Retrieved from <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32006R1924&from=en>
- FAO. (1997). Guidelines for Use of Nutrition and Health Claims. CAC/GL 23-1997 [Cited 3 August 2019]. <http://www.fao.org/ag/humannutrition/32444-09f5545b8abe9a0c3baf01a4502ac36e4.pdf>
- FDA Food and Drugs, 21 C. F. R. § 101 (2018)
- FDA Food and Drugs, 21 C. F. R. § 184.1400 (2018)
- FDA GRAS Notification for Dried Citrus Pulp, 487 G. R. N. (2013)
- Friedman, H. H., Whitney, J. E., & Szczesniak, A. S. (1962). The Texturometer – A New Instrument for Objective Texture Measurement. *Journal of Food Science*, 28(4), 390–396. Doi: 10.1111/j.1365-2621.1963.tb00216.x
- Gunstone, F. D. (Ed.). (2002). *Vegetables Oils in Food Technology: Composition, Properties and Uses*. Oxford, UK: Blackwell Publishing.
- HadiNezhad, M. & Butler, F. (2009). Effect of Flour Type and Dough Rheological Properties on Cookie Spread Measured Dynamically during Baking. *Journal of Cereal Science*, 49, 178-183. doi: 10.1016/j.jcs.2008.09.004
- Haryati, T., Elizabeth, J., Buana, L., Siahaan, D., Guritno, P., Soemarmono, & Souvenir. (2002). Production of Trans Fat Free Shortening using Palm Oil Fractions as Raw Materials, International Oil Palm Conference, Nusa Dua, Bali, 2002. Bali, Indonesia: Indonesian Oil Palm Research Institute.
- Heart & Stroke Foundation. (2015). Saturated Fat Heart Disease and Stroke. Retrieved from <https://www.heartandstroke.ca/-/media/pdf-files/canada/position-statement/saturatedfat-engfinal.ashx>
- Hui, Y. H. (Ed.). (2006). *Bakery Products: Science and Technology*. Iowa, USA: Blackwell Publishing.
- Indonesia National Agency of Drug and Food Control. (2013). Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor 20 Tahun 2013 Tentang Batas Maksimum Penggunaan Bahan Tambahan Pangan Pengemulsi (No. 20). Indonesia: BPOM
- Indonesia National Agency of Drug and Food Control. (2013). Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor 13 Tahun 2016 Tentang Pengawasan Klaim pada Label dan Iklan Pangan Olahan. (No. 13). Indonesia: BPOM
- Institute and Shortening and Edible oils, Inc. (2006). Food Fats and Oils. Retrieved from <http://www.iseo.org/httpdocs/Publications/FoodFatsOils2006.pdf>
- Jacob, J., & Leelavathi, K. (2007). Effect of fat-type on cookie dough and cookie quality. *Journal of Food Engineering*, 79(1), 299-305. <http://dx.doi.org/10.1016/j.jfoodeng.2006.01.058>
- Jariyah, J., Widjanarko, S. B., Yuniarta, & Estiasih, T. (2016). Quality Evaluation of Wheat-Pedada Fruit Flour (PFF) Biscuit with Different Emulsifiers. *Agriculture and Agricultural Science Procedia*, 9, 518–524. doi: 10.1016/j.aaspro.2016.02.171

- Kaur, N., Chugh, V., & Gupta, A. K. (2012). Essential fatty acids as functional components of foods- a review. *J Food Sci Technol.*, *51(10)*, 2289–2303. Doi: <https://dx.doi.org/10.1007/s13197-012-06770>
- Kocadagli, T. & Gokmen, V. (2018). Caramelization in Foods: A Food Quality and Safety Perspective. In Book of Reference Module in Food Science. doi: 10.1016/B978-0-08-100596-5.21630-2
- Kohajdova, Z., Karovicova, J., Jurasova, M., & Kukurova, K. (2011a). Application of citrus dietary fiber preparations in biscuit production. *Journal of Food and Nutrition Research*, *50(3)*, 182-190
- Kohajdova, Z., Karovicova, J., Jurasova, M., & Kukurova, K. (2011b). Effect of the addition of commercial apple fiber powder on baking and sensory properties of cookies. *Acta Chimica Slovaca*, *4(2)*, 88 – 97
- Kumar, K. A. & Sharma, G. K. (2018). The Effect of Surfactants on Multigrain Incorporated Short Biscuit Dough and Its Baking Quality. *Journal of Food Measurement and Characterization*. DOI: 10.1007/s11694-018-9750-3
- Kwak, H. S., Ganesan, P., & Mijan, M. A. (2013). Butter, Ghee, and Cream Products. In Park, Y. W. & Haenlein, G. F. W. *Milk and Dairy Products in Human Nutrition: Production, Composition and Health* (p. 390-411). DOI: 10.1002/9781118534168.ch18
- Laguna, L., Sanz, T., Sahi, S., & Fiszman, S. M. (2013). Role of Fiber Morphology in some Quality Features of Fiber-Enriched Biscuits. *International Journal of Food Properties*, *17(1)*, 163-178. doi: <https://doi.org/10.1080/10942912.2011.619024>
- Letang, C., Piau, M., & Verdier, C. (1999). Characterization of Wheat Flour-Water Doughs. Part I: Rheometry and Microstructure. *Journal of Food Engineering*, *41*, 121-132. DOI: 10.1016/S0260-8774(99)00082-5
- Lewis, M. J. (1996). *Physical Properties of Foods and Food Processing System*. Cambridge, UK: Woodhead Publishing Limited.
- Lundberg, B., Pan, X., White, A., Chau, H., & Hotchkiss, A. (2013). Rheology and Composition of Citrus Fiber. *Journal of Food Engineering*, *125*, 97-104. doi: <http://dx.doi.org/10.1016/j.jfoodeng.2013.10.021>
- Mahmoud, M. H., Abou-Arab, A. A., & Abu-Salem, F. M. (2017). Preparation of orange peel biscuits enrich with phenolic compounds as natural antioxidants. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, *8(4)*, 798-807. ISSN: 0975-8585
- Mamat, H. & Hill, S. E. (2014). Effect on Fat Types on the Structural and Texture Properties of Dough and Semi-Sweet biscuit. *J Food Sci Technol*, *51(9)*, 1998–2005. doi:10.1007/s13197-012-0708-x
- Mamat, H. & Hill, S. E. (2017). Structural and Functional Properties of Major Ingredients of Biscuit. *International Food Research Journal*, *25(2)*, 462-471.
- Manley, D. (2001). *Biscuit, Cracker, and Cookie Recipes for Food Industry*. Cambridge, UK: Wood Publishing Ltd.
- Manley, D. (2011). *Biscuit, Cracker and Cokie recipes for the Food Industry*. Cambridge, UK: Woodhead Publishing Limited.

- Manohar, R. S. & Rao, P. H. (1999). Effect of emulsifiers, fat level and type on the rheological characteristics of biscuit dough and quality of biscuits. *J Sci Food Agric*, 79, 1223-1231.
- McClements, D. J. & Gumus, C. E. (2016). Natural Emulsifier – Biosurfactants, Phospholipids, Biopolymers, and Colloidal Particles: Molecular and Physicochemical Basis of Functional Performance. *Advance in Colloid and Interface Science*. doi: 10.1016/j.cis.2016.03.002
- Mello El Halal, S. L. (2017). Crackers, Biscuits and Cookies – processing and factors that affect quality parameters and consumer's acceptability. Retrieved from <http://labgraos.com.br/manager/uploads/arquivo/crackers-biscuits-and-cookies-processing---dr--shanise-.pdf>
- Mironeasa, S. & Codina, G. G. (2013). Effect of Citrus Fibers Addition on Wheat Flour Dough Rheological Properties. *Journal of Faculty of Food Engineering*, 12(4), 322-327.
- Mishra, N. (2016). Formulation of Functional Biscuit for Lowering Blood Lipid Level. *International Journal of Food Science and Nutrition*, 1(2), 8-14
- Mohamed, A. I. A., Hussein, I. A., Sultan, A. S., & Al-Muntasheri, G. A. (2018). Use of Organoclay as a Stabilizer for Water-in-Oil Emulsion under High-Temperature High-Salinity Conditions. *Journal of Petroleum Science and Engineering* 160 302–312 DOI: <https://doi.org/10.1016/j.petrol.2017.10.077>
- Nassar, A. G., AbdEl-Hamied, A. A., & El-Naggar, E. A. (2008). Effect of Citrus By-products Flour Incorporation on Chemical, Rheological and Organoleptic Characteristics of Biscuits. *World Journal of Agricultural Sciences* 4 (5): 612-616
- Ngouémazong, E. D., Christiaens, S., Shpigelman, A., Van Loey, A. and Hendrickx, M. (2015). The Emulsifying and Emulsion-Stabilizing Properties of Pectin: A Review. *Comprehensive Reviews in Food Science and Food Safety*, 14: 705–718. doi: 10.1111/1541-4337.12160
- Nishinari, K., Kohyama, K., Kumagai, H., Funami, T., Bourne, M. C. (2013). Parameters of Texture Profile Analysis. *Food Science and Technology Research*, 19 (3), 519–521
- Onacik-Gur, S., Zbikowska, A., & Jaroszewska, A. (2015). Effect of high-oleic sunflower oil and other pro-health ingredients on physical and sensory properties of biscuits. *Journal of Food*, 13(4), 621-628. doi: 10.1080/19476337.2015.1032358
- Palav, T. S. (2016). Chemistry of Cake Manufacturing. In Reference Module in Food Science. doi:10.1016/b978-0-08-100596-5.00156-6
- Pathare, P.B., Opara, U. L., & Al-Said., F. A. (2013). Color Measurement and Analysis in Fresh and Processed Foods: A Review. *Food Bioprocess Technol*, 6, 36–60. doi: 10.1007/s11947-012-0867-9
- Pichot, R., Watson, R. L., & Norton, I. T. (2013). Phospholipids at the Interface: Current Trends and Challenges. *International Journal of Molecular Sciences*, 14, 11767-11794. doi: doi:10.3390/ijms140611767
- Purlis, E., 2010. Browning development in bakery products – A review. *Journal of Food Engineering*, 99(3), 239-249. doi: <https://doi.org/10.1016/j.jfoodeng.2010.03.008>
- Rangrej, V., Shah, V., Patel, J., & Ganorkar, P. M. (2015). Effect of shortening replacement with flaxseed oil on physical, sensory, fatty acid and storage characteristics of cookies. *Journal of Food Science and Technology*, 52(6), 3694–3700. <http://doi.org/10.1007/s13197-014-1430-7>

- Scholfield, C. R. & Dutton, H. J. (1954). Source of Color in soy bean "Lecithin". *The Journal of the American Oil Chemists' Society*. 31. 258-261. doi: 10.1007/BF02986416.
- Schubert, H., Engel, R., & Kempa, L. (2006). Principles of Structured Food Emulsions: Principle of Structured Food Emulsion: Novel Formulation and Trends. DOI: 10.1051/IUFoST:20061343
- Shipman, M. (2014). The difference between baking soda and baking powder. Retrieved 5 August 2019 from <https://phys.org/news/2014-05-difference-soda-powder.html>
- Statista (n.d.). U.S. population: Consumption of ready-to-eat cookies from 2011 to 2020. Retrieved from <https://www.statista.com/statistics/283161/us-households-consumption-of-ready-to-eat-cookiestrend/>
- Taggart, P. & Mitchell, J. R. (2009). Starch. In Philips, G. O. & Williams, P. A (Eds.). *Handbook of Hydrocolloids* (p. 108-141). DOI: 10.1533/9781845695873.108
- Tarancon, P., Salvador, A., Sanz, T., Fisman, S., & Tarrega, A. (2014). Use of healthier fats in biscuits (olive and sunflower oil): changing sensory features and their relation with consumers' liking. *Food Research International*, 69, 91-96. <http://dx.doi.org/10.1016/j.foodres.2014.12.013>
- The British Nutrition Foundation. (2009). Oils and Fats in the Diet. Retrieved from https://www.nutrition.org.uk/attachments/043_Oils%20and%20fats%20in%20the%20diet.pdf
- United States Department of Agriculture. (2011). Dextrin. Retrieved from <https://www.ams.usda.gov/sites/default/files/media/Dextrin%202010%20TR.pdf>
- Vaclavik, V. A. & Christian, E. W. (2008). *Essential of Food Science*. New York, USA: Springer Science+Business Media, LLC.
- Van der Sman, R. G. M. & Renzetti, S. (2018). Understanding Functionality of Sucrose in Biscuits for Reformulation Purposes. *Critical Reviews in Food Science and Nutrition* DOI: 10.1080/10408398.2018.1442315
- Vetter, J. L. (2003). LEAVENING AGENTS. In Caballero, B. (Ed.). *Encyclopedia of Food Sciences and Nutrition* (p. 3485–3490). doi:10.1016/b0-12-227055-x/00683-0
- Wada, Y., Kurogano, T., & Kimura, H. (1991). Effect of Starch Characteristics on the Physical Properties of Cookies. *J. Home Econ. Jpn.*, 42(8). 711-717. Retrieved from https://www.jstage.jst.go.jp/article/jhej1987/42/8/42_8_711/_pdf
- Whitehurst, R. J. (2004). *Emulsifiers in Food Technology*. Oxford, UK: Blackwell Publishing Ltd.
- Zheljazkov, V.D., Vick, B. A., Ebelhar, W., Buehring, N., Baldwin, B. S., Astatkie, T., & Miller, J. F. (2008). Yield, Oil Content, and Composition of Sunflower Grown at Multiple Locations in Mississippi. *Agronomy Journal*, 100(3), 635-642. Retrieved from <https://pubag.nal.usda.gov/pubag/downloadPDF.xhtml?id=18543&content=PDF>