

DAFTAR PUSTAKA

1. Spencer, J.P.E.; Rice-Evans C.A.; Srai S.K.S: *Metabolism in the small intestine and gastrointestinal tract*; Second Edition: Marcel Dekker Publishers: Inc ; New York, 2003.
2. Gonzale, A.P.; Zepeda, A.M.R; Zepera, J.R.L.; Galano, A.: Reactivity indexes and O-H bond dissociation energies of a large series of polyphenols : implication for their free radical scavenging activity. *J Mex. Chem. Soc* 2012, 56(3), 241-249.
3. Brown, D.M.; Kelly, G.E.: Reactivity of a large series of polyphenols : implications for their free radical scavenging activity. *Mol. Biotechnol* 2005, 30, 253-270.
4. Cao, G.; Prior, R.L.: Identification of flavonol glycosides in winemaking by-products. *Free Radic. Boil. Med.* 1997, 22, 749-760.
5. Lau, T.: A healthy way to live : The Occurance, Bioactivity Biosynthesis and Synthesis of Kaempferol. *Chemistry* 2008, 150.
6. Yoshida, T.; Konishi, M.; Horinaka, M. Yasuda, T.; Goda, A.E.; Taniguchi, H.; Yano, K; Wakada, M.; Sakai, T.: Kaempferol sensitizes colon cancer cells to TRAIL-Induced apoptosis, biochem, biophys. *Commun* 2008, 375, 129-133.
7. Vaganek, A.; Rimarcik, J.; Lukes, V.; Rottmannova, L.; Klein, E.: DFT/B3LYP Study of the enthalpies of hemolytic and heterolytic O-H bond dissociation in sterically phenols. *Acta Chimica Slovaca* 2011, 4, 55-57.
8. Najafi, M.: On the antioxidant activity of *ortho*- and *meta*-substituted indolin-2-one derivatives. *Monatsh Chem* 2014, 145, 291-299.
9. Najafi, M.: On the antioxidant activity of the *ortho* and *meta* substituted daidzein derivatives in the gas phase and solvent environment. *J. Mex.Chem. Soc* 2014, 58(1), 36-45.
10. Tahir, I.; Fatimah, N.F.; Armunanto, R.: Analisis hubungan kuantitatif struktur dan aktivitas antitoxoplasma senyawa analog kuinolon menggunakan descriptor teoritik. *Sains dan Terapan Kimia* 2003, 6(2), 139-153.
11. Puspitasari, N.S.; Tahir, I.: Aplikasi principal component regression untuk analisis QSAR senyawa antioksidan turunan flavon/flavonol menggunakan descriptor elektronik hasil perhitungan metode AM1. *Berkala MIPA* 2006, 1-6.
12. Ammar, A.I.; Eid, A.A.: Physical properties of phenol compound: Semi-empirical calculation of substituent effect (Part one). *American Journal of Applied Sciences* 2009, 6(7), 1385-1389.
13. Heravi, M.M.; Sabahi, Y.; Ardalan, T.: DFT study of substituent effects on antioxidant activity of kaempferol in the gas phase. *Journal of Physical Chemistry and Electrochemistry* 2013, 2(1), 21-25.
14. Redha, A.: Flavonoid struktur, Sifat antioksidatif, dan Peranannya dalam sistem biologis. *Jurnal Berlian* 2010, 196.
15. Kumar,; Shashank,; Abhay, P.K.: Chemistry and biologi activities of flavonoids : An overview. *Hindawi Publishing Corporation The Scientific World Journal* 2013, 16.
16. Yuhernita,; Jurniati,: Analisis senyawa metabolit sekunder dari ekstrak methanol daun surian yang berpotensi sebagai antioksidan. *Universitas YARSI, Jakarta, Malkara Sains* 2011, 15, 48-52.
17. Road, E., Product Infotmation, 2012, <http://www.caymanchem.com/catalog/11852>, diakses pada 07 Februari 2017.

18. Inggrid, M.H.; Santoso, H.: Ekstraksi antioksidan dan senyawa aktif dari buah kiwi (*actinidia deliciosa*). *Lembaga Penelitian dan Pengabdian Kepada Masyarakat Universitas Katolik Parahyangan* 2014, 1-37.
19. Nisa, F.K.: Uji aktivitas senyawa khirisin sebagai antioksidan dengan modifikasi gugus pada cincin aktifnya menggunakan metoda RM1 dan ab initio. *Jurusan Kimia FMIPA Universitas Negeri Semarang*, 2013.
20. Leopoldini, M.; Pitarch, I.P.; Russo, N.; Toscano, M.: Structure conformation, and electronic properties of apigenin, luteolin, and taxifolin antioxidants. A first principle theoretical study, Universitas Della Calabria, Italy. *J. Phys. Chem. A* 2003, 108, 92-96.
21. Quan, P.T.; Hung, L.T.; Thai, T.T.: Estimation of scavenging activity of phenolic compounds by calculating spin density distribution. *University of Technology, VNU-HCM* 2007, 1-12.
22. Klein, E.; Rimarcik, J.; Lukes, V.: DFT/B3LYP study of the O-H bond dissociation enthalpies and proton affinities of para- and meta-substituted phenols in water and benzene. *Acta Chimica Slovaca* 2009, 2(2), 37-51.
23. Saqib, M.; Iqbal, S.; Mahmood, A.; Akram, R.: Theoretical investigation for exploring the antioxidant potential of chlorogenic acid: a density functional. *International Journal of Food Properties* 2016, 19, 745-751.
24. Najafi, M.; Farmanzadeh, D.; Klein, E.; Zahedi, M.: A theoretical study on the enthalpies of hemolytic and heterolytic N-H bond cleavage in substituted melatonins in the gas phase and aqueous solution. *Iran Scientific Paper, Acta Chim. Slov* 2013, 60, 43-55.
25. Farkas, O. ; Jakus, J.; Heberger, K.: Quantitative structure-antioxidant activity relationships of flavonoid compounds. *Molecules* 2004, 9, 1079-1088.
26. Prianto, B.: Pemodelan kimia komputasi. *Penelitian Bidang Material* tanpa tahun, 6-9.
27. Pranowo, H.D.: Pengantar kimia komputasi. *Austrian-Indonesian Centre for Computational Chemistry (AIC), Universitas Gajah Mada, Yogyakarta*, 2008.
28. Tahir, I.; Mohd, N.A.; AKM, S.I.; Dahyar, A.: Rational design of molecular imprinting polymer based on AM1 semiempirical study of allopurinol-methacrylic acids interactions. *Malaysian Technical Universitas International Conference On Engineering & Technology (MUI CET)* 2011.
29. Tahir, I.; Fatimah, N.F.; Armunanto, R.: Analisis hubungan kuantitatif struktur dan aktivitas antioksidasi senyawa analog kuinolon menggunakan deskriptor teoritik. *Austrian-Indonesian Centre Of Computational Chemistry, Universitas Gajah Mada* 2012, 6(2), 139-153.
30. Prasetya, A.T.; Alaudin, M.; Nuni, W.: Simulasi efektivitas senyawa obat eritromisin F dan anhidroeritrimisin F dalam lambung menggunakan metoda semiempiris Austin Model 1 (AM1). *Unnes, Semarang* 2010, 1(8), 96.
31. Panggarjito, D.; Istyastono, E.P.; Tahir, I.: Hubungan kuantitatif struktur molekul dan aktifitas modulator reseptor asetilkolin nikotinic $\alpha 4\beta 2$: pengaruh pemodelan molekul berbasis perhitungan semiempirik MNDO. *Seminar Nasional "Aplikasi Sains dan Matematika dalam Industri" UKSW* 2007.
32. Katrizky, A.R.; Karelson, M.; Lobanov, V.S.: Quantum-chemical descriptors in QSAR/QSPR studies. *J. Am. Chem. Soc* 1996, 96(3), 1027-1044.
33. Istyastono, E.P.; Martono, S.; Pranowo, H.D.; Tahir, I.: Kuantitatif structure-activity relationship analysis of curcumin and its derivatives as GST inhibitors bades on computational chemistry calculation. *Indonesian Journal of Chemistry* 2003, 3(3), 179-186.

34. Priyatno, D.: Pahami analisa statistic data dengan SPSS. *Media Kom* 2010, 22, 55-61.

