
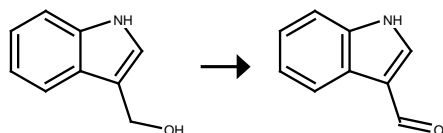


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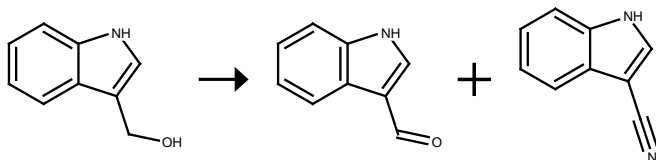
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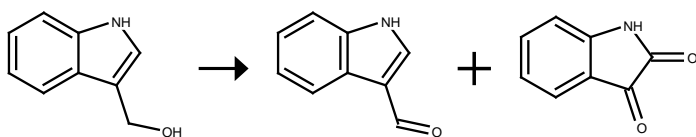
Yield	Conditions & References
98 %	<p>With 1-hydroxy-3H-benz[d][1,2]iodoxole-1,3-dione in dimethyl sulfoxide, Time= 8h, Ambient temperature</p> <p>Frigerio, Marco; Santagostino, Marco; Sputore, Simona; Palmisano, Giovanni; Journal of Organic Chemistry; vol. 60; nb. 22; (1995); p. 7272 - 7276 View in Reaxys</p>
90 %	<p>With 1,3,6,8-tetra-n-butylpyrimido<5,4-g>pteridine-2,4,5,7(1H,3H,6H,8H)-tetrone 10-oxide in acetonitrile, Time= 0.0333333h, Irradiation</p> <p>Maki; Oyabu; Ohara; Sako; Kitade; Hirota; Chemical and Pharmaceutical Bulletin; vol. 37; nb. 12; (1989); p. 3239 - 3242 View in Reaxys</p>
87 %	<p>Typical procedure for the oxidation of alcohols General procedure: A mixture of alcohol (1 mmol) and lactic acid (1 mL) was charged in 25 mL round bottom flask subjected to constant magnetic stirring at room temperature (30°C). The reaction mixture was further activated by addition of 30% H₂O₂ (1.07 equiv.). The reaction progress was monitored by GC. After completion of the reaction, Dichloromethane (2×6 mL) was added to the reaction mixture and then washed with distilled water (2×2mL). The organic layer was separated and dried over Na₂SO₄ and removed under reduced pressure. The crude product was obtained by evaporation method and again purified by column chromatography using ethyl acetate and n-hexane as eluting system.</p> <p>With LACTIC ACID, dihydrogen peroxide, Time= 7h, T= 30 °C</p> <p>Wagh, Ravindra B.; Nagarkar, Jayashree M.; Tetrahedron Letters; vol. 59; nb. 37; (2018); p. 3443 - 3447 View in Reaxys</p>
86 %	<p>With 1-methyl-1H-imidazole, tetrakis(acetonitrile)copper(I) trifluoromethanesulfonate, 4,4'-Dimethoxy-2,2'-bipyridin, 9-azabicyclo[3.3.1]nonane N-oxyl, oxygen in acetonitrile, Time= 3h, T= 20 °C</p> <p>Steves, Janelle E.; Stahl, Shannon S.; Journal of the American Chemical Society; vol. 135; nb. 42; (2013); p. 15742 - 15745 View in Reaxys</p>
82 %	<p>General procedure: A mixture of alcohol (5.0 mmol), Cu(OAc)₂ (9.1 mg, 0.05 mmol), and TEMPO (7.8 mg, 0.05 mmol) in CH₃CN/H₂O (5/10 mL) was stirred at room temperature for specified time. After completion of the reaction (monitored by TLC, eluents: petroleum ether/ethyl acetate = 4/1), dichloromethane (10 mL) was added to the resulting mixture. The dichloromethane phase was separated, and the aqueous phase was further extracted with dichloromethane (10 mL × 2). The combined organic layers were dried over anhydrous sodium sulfate and concentrated to give a residue, which was purified by column chromatography (eluents: petroleum ether/ethyl acetate = 10/1) to provide the desired product.</p> <p>With 2,2,6,6-Tetramethyl-1-piperidinyloxy free radical, copper diacetate in water, acetonitrile, Time= 6h, T= 20 °C , Green chemistry</p> <p>Jiang, Jian-An; Du, Jia-Lei; Wang, Zhan-Guo; Zhang, Zhong-Nan; Xu, Xi; Zheng, Gan-Lin; Ji, Ya-Fei; Tetrahedron Letters; vol. 55; nb. 10; (2014); p. 1677 - 1681 View in Reaxys</p>
80 %	<p>With iron(III) chloride hexahydrate, C₁₇H₂₆N₃⁽¹⁺⁾*Br⁽¹⁻⁾, dihydrogen peroxide in water, Time= 3h, T= 20 °C , chemo-selective reaction</p> <p>Yan, Qi; Fang, Ye Chen; Jia, Yun Xue; Duan, Xin Hong; New Journal of Chemistry; vol. 41; nb. 6; (2017); p. 2372 - 2377 View in Reaxys</p>

78 %	<p>With potassium osmate(VI) dihydrate, potassium carbonate, potassium hexacyanoferrate(III) in water, acetonitrile, Time= 2h, T= 60 °C , chemoselective reaction</p> <p>Fernandes, Rodney A.; Bethi, Venkati; RSC Advances; vol. 4; nb. 76; (2014); p. 40561 - 40568 View in Reaxys</p>
72%	<p>With 9-fluorenone, oxygen in dimethyl sulfoxide, T= 20 °C , Irradiation</p> <p>Schilling, Waldemar; Riemer, Daniel; Zhang, Yu; Hatami, Nareh; Das, Shoubhik; ACS Catalysis; vol. 8; nb. 6; (2018); p. 5425 - 5430 View in Reaxys</p>
72 %	<p>The general procedure for the oxidative dehydrogenation of benzyl alcohol was as follows General procedure: Approximately 0.1 g of Fe₃O₄(at)PDAPd catalyst (2 mol% of Pd) was used. The aforementioned solidand liquor were separated using a magnet and placed under ultrasonic washing using 10 mL 3O-xylene. Then, 1 mmol of benzyl alcohol derivative and 5 mL of O-xylene were successively added and blended under ultrasonic conditions. The mixture was then magnetically stirred for 24 h under 120 °C. After the reaction ended, the solid and liquor were separated using a magnet. The liquor wasconcentrated, and the dehydrogenation product could be obtained after purification through column chromatography (petroleum ether/ethyl acetate).</p> <p>With magnetic polydopamine-wrapped Fe₃O₄ core-shell submicrosphere-supported nano-palladium, air in o-xylene, Time= 24h, T= 120 °C , Sonication</p> <p>Guo, Haichang; Zheng, Renhua; Jiang, Huajiang; Xu, Zhenyuan; Xia, Aibao; Molecules; vol. 24; nb. 9; (2019); Art.No: 1730 View in Reaxys</p>
63 %	<p>With 2,2,6,6-Tetramethyl-1-piperidinyloxy free radical, dimethyl 3-methyl-9-oxo-7-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-2,4-di(pyridin-2-yl)-3,7-diazabicyclo-[3.3.1]nonane-1,5-dicarboxylate, copper(I) bromide in water, Time= 12h, T= 20 °C , Green chemistry</p> <p>Ang, Wei Jie; Chng, Yong Sheng; Lam, Yulin; RSC Advances; vol. 5; nb. 99; (2015); p. 81415 - 81428 View in Reaxys</p>
56 %	<p>With bismuth (III) nitrate pentahydrate, cellulose supported copper⁽⁰⁾, oxygen in acetonitrile, Time= 2h, T= 60 °C</p> <p>Baruah, Diganta; Hussain, Farhaz L.; Suri, Mrinaly; Saikia, Ujwal Pratim; Sengupta, Pinaki; Dutta, Dipak Kumar; Konwar, Dilip; Catalysis Communications; vol. 77; (2016); p. 9 - 12 View in Reaxys</p>
43 %	<p>(b) Millimolar scale reactions: General procedure: A glass vial fitted with magnetic stirrer and a magnetic bar containing a reaction mixture of alcohol (0.1 mmol), NH₄SCN (3 eq.), catalyst (5 mol%) and 2 ml of solvent. The vial was closed with rubber septum and O₂ was bubbling for 15 minutes using needles. The reaction mixture was irradiated under a 23W CFL lamp for a certain time period. Reaction progress was monitored by TLC. After, completion of the reaction, a yellow solid was formed. The reaction mixture of three vials with the same content were combined and filter it through whatman filter paper. The mixture was evaporated under reduced pressure and purified by column chromatography using hexane/ethyl acetate as eluent. Further, the reaction mixture was run on a GC-MS instrument for characterisation. Yield, conversion and selectivity were calculated using following equations.</p> <p>With 4,5,6,7-tetrachloro-2',4',5',7'-tetraiodofluorescein disodium salt, oxygen, ammonium thiocyanate in acetonitrile, Time= 20h, T= 20 °C , Irradiation</p> <p>Sheriff Shah, Sk; Pradeep Singh; Tetrahedron Letters; vol. 59; nb. 3; (2018); p. 247 - 251 View in Reaxys</p>
	<p>With fungal intracellular enzyme from cultural mycelium of fungus Daldinia eschscholzii IFB-TL₀₁ from mantis Teno-dera aridifolia guts in aq. phosphate buffer, Time= 2h, T= 28 °C , pH= 7</p> <p>Lin, Li Ping; Yuan, Peng; Jiang, Nan; Mei, Ya Ning; Zhang, Wen Jing; Wu, Hui Min; Zhang, Ai Hua; Cao, Jiang Ming; Xiong, Zheng Xin; Lu, Ye; Tan, Ren Xiang; Organic Letters; vol. 17; nb. 11; (2015); p. 2610 - 2613 View in Reaxys</p>



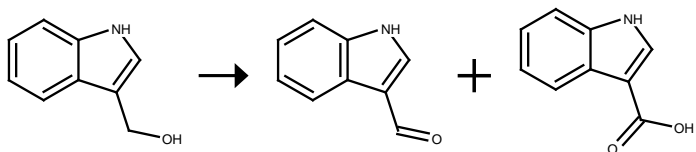
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Yield	Conditions & References
	<p>With ammonia, oxygen in tetrahydrofuran, Time= 12h, T= 130 °C , p= 4560.31Torr</p> <p>Oishi, Takamichi; Yamaguchi, Kazuya; Mizuno, Noritaka; Angewandte Chemie - International Edition; vol. 48; nb. 34; (2009); p. 6286 - 6288; Angewandte Chemie; vol. 121; nb. 34; (2009); p. 6404 - 6406</p> <p>View in Reaxys</p>



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Yield	Conditions & References
	<p>With pyridinium chlorochromate in 1,2-dichloro-ethane, Time= 8h, T= 20 °C</p> <p>Kumar, Chebolu Naga Sesha Sai Pavan; Devi, Chebrolu Lavanya; Rao, Vaidya Jayathirtha; Palaniappan, Srinivasan; Synlett; nb. 13; (2008); p. 2023 - 2027</p> <p>View in Reaxys</p>



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Yield	Conditions & References
	<p>With dihydrogen peroxide, T= 70 °C , Catalytic behavior, Reagent/catalyst, Temperature</p> <p>Rathore, Puran Singh; Patidar, Rajesh; Thakore, Sonal; RSC Advances; vol. 4; nb. 77; (2014); p. 41111 - 41121</p> <p>View in Reaxys</p>