**CHEMISTRY AND COMMON SYNTHETIC ROUTE OF 1, 3, 4-OXADIAZOLE: AN IMPORTANT HETEROCYCLIC MOIETY IN MEDICINAL CHEMISTRY**

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2-(4-chlorophenyl) amino-5-(4-pyridyl)-1, 3,4-oxadiazole

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 1-[5-(2-methyl-2*H*-chromen-3-yl)-2-phenyl-1,3, 4-oxadiazol-3(2*H*)-yl]ethanone

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 2-{2-[(2-fluorobenzyl)thio]phenyl}-5-(methylthio)-1,3,4-oxadiazole

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 5-(2-benzyloxyphenyl)-2-mercapto-1,3,4-oxadiazole

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 2-methyl thio -5-[2-(2-fluorophenoxy)phenyl]-1,3,4-oxadiazole

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3-[5-(5,8-dihydronaphthalen-1-ylmethyl)-1,3,4-oxadiazol-2-yl]-1-(4- methylphenyl)propan-1-one

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 1-(4-methylphenyl)-3-(5-phenyl-1,3,4-oxadiazol-2-yl)propan-1-one

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 1-(4-phenoxyphenyl)-3-(5-phenyl-1,3,4-oxadiazol-2-yl)propan-1-one

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 2-(4-chlorophenyl)-5-[(naphthalen-1-yloxy)methyL]-1,3,4-oxadiazole

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 2-(4-chlorophenyl)-5-(tricyclo[3.3.1.13,7]dec-1-yl)-1,3,4-oxadiazole

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1-[2-phenyl-5-(1,2,5,9b-tetrahydronaphtho[2,1-*b*]furan-2-yl)-1,3,4-oxadiazol-3(2*H*)-yl] ethanone

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 3-[5-(2-hydroxyphenyl)-1,3,4-oxadiazol-2-yl]-2*H*-chromen-2-one



2-(2-naphthyloxymethyl)5-aminophenyl-1,3,4-oxadiazole

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 *N*-cyclohexyl-5-(pyridin-3-yl)-1,3,4-oxadiazol-2-amine

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 5-(dec-9-en-1-yl)-*N*-phenyl-1,3,4-oxadiazol-2-amine

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2-{[(4-chlorobenzyl)sulfonyl]methyl}-5-[(4*R*)-4-(4-chlorophenyl)-4,5-dihydro-1*H*-pyrazol-3-yl]-1,3,4-oxadiazole

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 2-(3-methylazulen-1-yl)-5-phenyl-1,3,4-oxadiazole

2-[(benzylsulfonyl)methyl]-5-phenyl-1,3,4-oxadiazole

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2-[3-(5-chloro-2-methoxyphenyl)cyclopenta-1,4-dien-1-yl]-5-(4-chlorophenyl)-1,3,4-oxadiazole.

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 2-(3-bromo-2-methylphenyl)-5-(2-fluoro-4-methoxyphenyl)-1,3,4-oxadiazole

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 2-{[5-(4-chlorophenyl)-1,3,4-oxadiazol-2-yl]sulfanyl}propanoic acid

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 4-[5-(1*H*-benzotriazol-1-ylmethyl)-1,3,4-oxadiazol-2-yl]aniline

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2-(2,4-dichloro-5-fluorophenyl)-4-{5-[(4-methylphenoxy)methyl]-1,3,4-oxadiazol-2-yl}quinoline

 3-[5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-yl]-2,4-dimethyl-3,4-dihydroquinazoline



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2-(2-{4-[5-(2,3-dichlorophenyl)[1,3,4-oxadiazol-2yl]-phenoxy}ethyl)-5-ethylpyridine.

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 5,5'-benzene-1,4-diylbis(*N*-phenyl-1,3,4-oxadiazol-2-amine)

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 5-[(2-methyl-4-nitro-1*H*-imidazol-1-yl) methyl]-1,3,4-oxadiazol-2-amine

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 2-(ethylsulfanyl)-5-(tricyclo[3.3.1.13,7]dec-1-yl)-1,3,4-oxadiazole

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 1-{[5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-yl]amino}-1-oxopropan-2-yl benzoate

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 1-oxo-1-[(5-phenyl-1,3,4-oxadiazol-2-yl)amino]propan-2-yl dimethylcarbamodithioate

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6-phenyl-2-{[5-(phenylamino)-1,3,4-oxadiazol-2-yl]methyl}-4,5-dihydropyridazin- 3(2*H*)- one

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 2-{5-[(4-aminophenyl) sulfanyl]-1,3,4-oxadiazol-2-yl}phenol

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 1-{5-phenyl-2-[4-(pyrrolidin-1-yl)phenyl]-1,3,4-oxazol-4-yl}ethanone

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 4-(5-pentadecyl-1,3,4-oxadiazol-2-yl)pyridine

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3-{2-furfuryl[4-(4-{2-furyl[5-(2-naphthyloxymethyl)-2-thioxo-2,3-dihydro-1,3,4-oxa-diazol-
3-yl]methylamino}phenylsulfonyl)aniline]methyl}-5-(2-naphthyl oxy methyl)-2,3-dihydro
-1,3,4-oxadiazoles-2-thione.

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 *N*-(4-chlorophenyl)-5-phenyl-1,3,4-oxadiazol-2-amine

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 4-phenyl-5-[(5-phenyl-1,3,4-oxadiazol-2-yl)sulfanyl]-1,3-thiazol-2-amine

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 1-[(5-ethoxy-1,3,4-oxadiazol-2-yl)methyl]-4-phenylpiperazine

4-methoxy-N-(4-{5-[(4-methylphenyl) amino]-1, 3, 4-oxadiazol-2-yl}phenyl)benzamide

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 *N*-[(3-{5-[(4-chlorophenyl)amino]-1,3,4-oxadiazol-2-yl}-1,2-thiazol-4-ylmethyl] pyridin-3-amine

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 3-[5-(pyridin-4-yl)-1,3,4-oxadiazol-2-yl]-1*H*-indole

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 2,2,2-trifluoro-1-[5-(5-phenyl-1,3,4-oxadiazol-2-yl)thiophen-2-yl]ethanone



2-(hydroxymethyl)-6-(5-methyl-1,3,4-oxadiazol-2-yl)tetrahydro-2H-pyran-3,4,5-triol

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2-(4-chlorophenyl)-5-[5-methyl-3-(4-nitrophenyl)-4,5-dihydro-1,2-oxazol-5-yl]-1,3,4-oxadiazole

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 2-(5-nitrothiophen-2-yl)-5-(thiophen-2-yl)-1,3,4-oxadiazole

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 2-(2,4-dichloro-5-fluorophenyl)-5-(2,3,4,5-tetrafluorophenyl)-1,3,4-oxadiazole

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 2-phenyl-5-{[3-(trifluoromethyl)phenoxy]methyl}-1,3,4-oxadiazole

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2-(2,4-dichloro-5-fluorophenyl)-5-[3-(dichloromethylidene)-2,2-dimethylcyclopropyl]-1,3,4-oxadiazole

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 2,5-bis(4-chlorophenyl)-3-phenyl-2,3-dihydro-1,3,4-oxadiazole

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 4-[3-acetyl-5-(pyridin-3-yl)-2,3-dihydro-1,3,4-oxadiazol-2-yl]phenyl acetate

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 2-(4-iodophenyl)-5-(4-methoxyphenyl)-1,3,4-oxadiazole

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1-{2-[5-(1-benzenesulfonyl-propyl)-[1,3, 4]oxadiazol-2-yl-sulfanyl]-ethyl}-4-(2-methoxy-phenyl)-piperazine

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 5-(tricyclo[3.3.1.13,7]dec-1-yl)-1,3,4-oxadiazole-2(3*H*)-thione