

S values in accordance with Soczewiński-Wachtmeister's equation

S value from Soczewiński's Equation*	Antiparasitic drugs:						
	Metronidazole	Ornidazole	Secnidazole	Tinidazole			
S(m)	1.614	2.161	1.921	1.911			
S(a)	1.634	2.159	1.887	1.923			
S value from Soczewiński's equation	Antihypertensive drugs:						
	Nilvadipine	Felodipine	Isradipine	Lacidipine			
S(m)	4.129	4.597	3.741	5.349			
S(a)	5.330	4.841	4.715	5.690			
S value from Soczewiński's equation	Non-steroidal anti-inflammatory drugs (NSAIDs):						
	Mefenamic acid	Indomethacin	Nabumetone	Phenylbutazone	Carprofen	Ketoprofen	Flurbiprofen
S(m)	2.879	2.773	3.456	2.682	2.854	2.139	2.568
S(a)	3.317	3.442	3.910	2.404	3.394	1.968	2.010

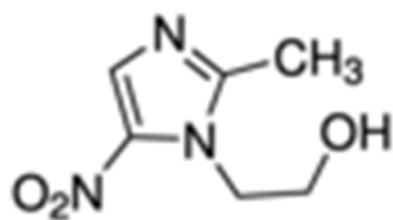
*where:

S(m) – S is the slope of the regression curve in accordance with Soczewiński-Wachtmeister's equation using methanol-water mobile phase

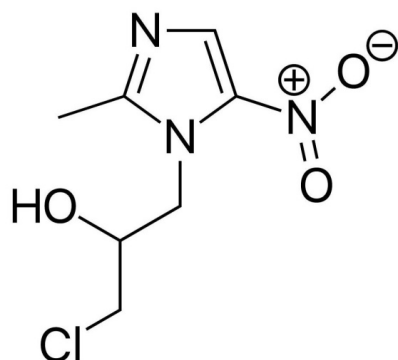
S(a) – S is the slope of the regression curve in accordance with Soczewiński-Wachtmeister's equation using acetone-water mobile phase

First group of drugs (antiparasitic drugs)

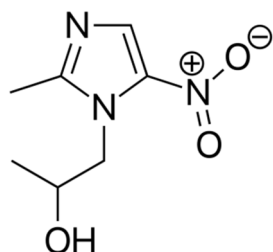
1. Metronidazole (2-Methyl-5-nitroimidazole-1-ethanol)



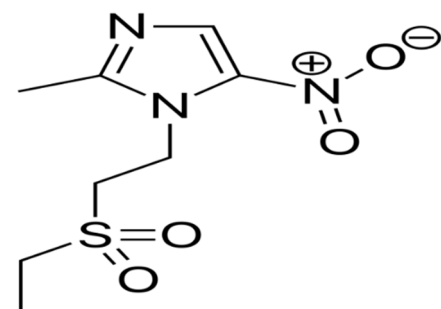
2. Ornidazole (1-(3-Chloro-2-hydroxypropyl)-2-methyl-5-nitroimidazole)



3. Secnidazole (1-(2-methyl-5-nitro-1H-imidazol-1-yl) propan-2-ol, 1-(2-Hydroxypropyl)-2-methyl-5-nitroimidazole)

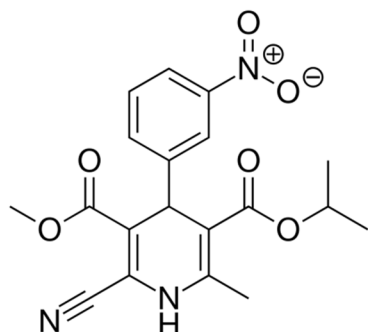


4. Tinidazole (1-[2-(Ethylsulfonyl)ethyl]-2-methyl-5-nitroimidazole)

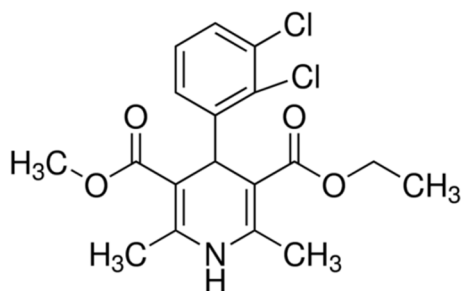


Second group of drugs (antihypertensive drugs)

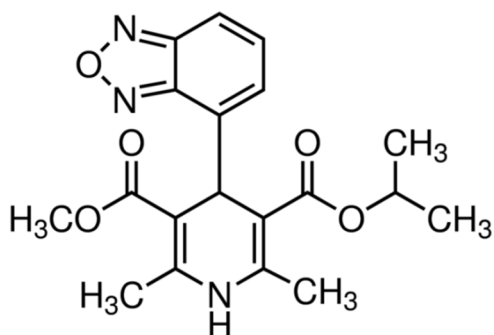
1. Nilvadipine (2-Cyano-1,4-dihydro-6-methyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 3-methyl 5-(1-methylethyl) ester, 5-Isopropyl-3-methyl-2-cyano-1,4-dihydro-6-methyl-4-(m-nitrophenyl)-3,5-pyridinedicarboxylate, FK-235, FR-34235, Isopropyl 6-cyano-5-methoxycarbonyl-2-methyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3-carboxylate)



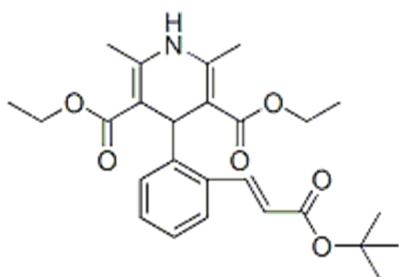
2. Felodipine (4-(2,3-Dichlorophenyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinecarboxylic acid ethyl methyl ester)



3. Isradipine (4-(4-Benzofurazanyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylic acid methyl 1-methylethyl ester)

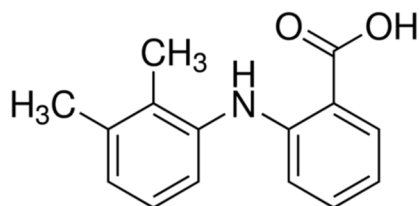


4. Lacidipine (3,5-Diethyl 4-{2-[(1E)-3-(tert-butoxy)-3-oxoprop-1-en-1-yl]phenyl}-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate, 4-[2-[(1E)-3-(1,1-Dimethylethoxy)-3-oxo-1-propen-1-yl]phenyl]-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylic acid 3,5-diethyl ester)

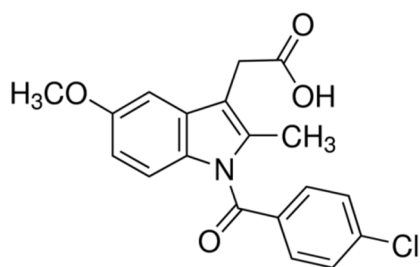


Third group of drugs (non-steroidal anti-inflammatory drugs)

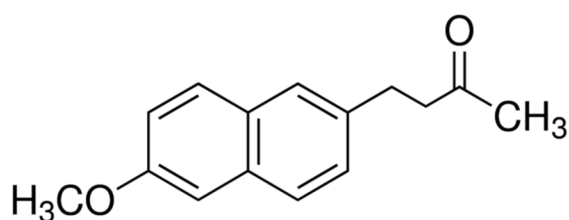
1. **Mefenamic acid** (2-[(2,3-Dimethylphenyl)amino]benzoic acid, *N*-(2,3-Xylyl)anthranilic acid)



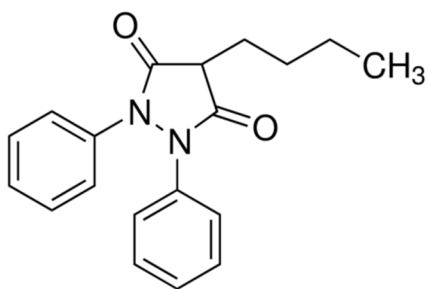
2. **Indomethacin** (1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-3-indoleacetic acid)



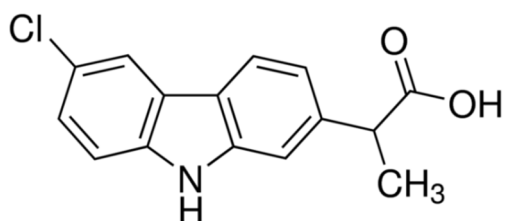
3. **Nabumetone** (4-(6-Methoxy-2-naphthyl)-2-butanone)



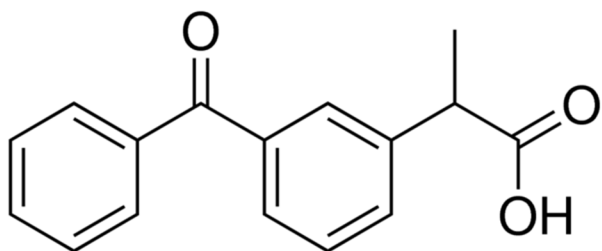
4. **Phenylbutazone** (4-Butyl-1,2-diphenyl-3,5-pyrazolidinedione)



5. **Carprofen** (6-Chloro- α -methyl-9*H*-carbazole-2-acetic acid)



6. Ketoprofen (2-(3-Benzoylphenyl)propionic acid)



7. Flurbiprofen ((±)-2-Fluoro- α -methyl-4-biphenylacetic acid)

