Data from: *Eur. J. Org. Chem.* 2017, 4475–4489 https://doi.org/10.1002/ejoc.201700749

Table 1. Experimental basicities in MeCN, H_2O, gas phase, and calculated GB values. Bases measured in this work are given in bold. The rest are reference bases.

	Base	ΔpK_a	pK_a(MeCN)[a]	pK_a(H_2O)	GB(exp)[b]	GB(calc)[c]
1	2-Cl-$C_6H_4P_1$(pyrr)		20.17			
2	**Quino[7,8-*h*]quinoline**		**19.61**	12.0[c]	-	244.1
3	2,5-Cl_2-$C_6H_3P_1$(pyrr)		18.52			
4	4-NO_2-$C_6H_4P_1$(pyrr)		18.51			
5	2,3-$(NH_2)_2$-Pyridine		15.24			
6	**Imidazole**		**15.05**	6.95[d]	217.3	218.1
7	2,4-$(NO_2)_2$-$C_6H_3P_1$(pyrr)		14.88			
8	2,6-$(NH_2)_2$-Pyridine		14.77			
9	2,6-Cl_2-4-NO_2-$C_6H_2P_1$(pyrr)		14.43			
10	2,6-$(CH_3)_2$-Pyridine		14.13			
11	2,6-NO_2-$C_6H_3P_1$(pyrr)		14.12			
12	**Phenanthroline**		**13.68**	5.12[p]	>217	230.9
13	**Benzimidazole**		**13.52**	5.56[e]	220.0	219.8
14	2-CH_3-Pyridine		13.32			
15	**Isoquinoline**		**12.69**	5.46[f]	219.9	220.4
16	**Acridine**		**12.67**	5.62[f]	224.8	225.8
17	Pyridine		12.53	5.23[f]	214.7	214.7
18	**Thiabendazole**		**12.42**	4.64[g]	-	223.8
19	**2,2´-Bipyridine**		**12.26**	4.54[h]	223.1	225.0
20	**Carbendazim**		**12.24**	4.53[i]	-	221.9
21	**Quinoline**		**11.96**	4.93[f]	220.2	219.8
22	**5,6-Benzoquinoline**		**11.96**	5.15[h]	-	222.6
23	4-CH_3O-Aniline		11.86			
24	2-CH_3-Quinoline-8-amine		11.54			
25	**Phthalazine**		**11.55**	3.47[f]	-	219.5
26	N,N-Me_2-Aniline		11.43			
27	**2,2´-Biquinoline**		**11.28**	3.66[n]	-	230.0
28	**7,8-Benzoquinoline**		**10.84**	4.25[h]	-	221.3
29	Aniline		10.62			
30	Cinnoline		10.5[c]	2.29[f]	216.2	217.4
31	2-CH_3-Aniline		10.50			
32	**Pyridazine**		**10.07**	2.33[f]	209.6	210.5
33	2-CH_3O-Pyridine		9.93			
34	1-Naphtylamine		9.77			
35	3-Cl-Pyridine		9.55			
36	4-Br-Aniline		9.43			
37	**Quinazoline**		**9.19**	1.95[j]	-	212.3
38	**Pyrazole**		**9.1**	2.48[q]	205.7	206.0
39	**Pyrimidine**		**8.72**	1.3[f]	204.5	204.6
40	2,4-F_2-Aniline		8.39			
41	4-CF_3-Aniline		8.03			
42	**1,2,3-Triazole**		**7.9**	1.17[q]	202.5	202.4
43	2-Cl-Aniline		7.86			
44	**Pyrazine**		**7.74**	0.6[f]	202.4	202.0
45	4-F-3-NO_2-Aniline		7.67			
46	2,6-$(CH_3O)_2$-Pyridine		7.64			
47	**Indazole**		**7.61**	1.25[j]	207.7	208.3
48	**Caffeine**		**7.51**	0.60[k]	-	210.0
49	**Quinoxaline**		**7.40**	0.56[f]	208.8	208.9
50	**Benzotriazole**		**6.88**	0.42[l]	-	210.2
51	2-Cl-Pyridine		6.79			
52	N,N-Ph_2-N-CH_3-Amine		6.52			
53	**4-NO_2-Imidazole**		**6.34**	-0.16[m]	-	201.6
54	4-NO_2-Aniline		6.22			
55	2,5-Cl_2-Aniline		6.21			
56	**2-NO_2-Imidazole**		**5.54**	-0.81[d]	-	200.4
57	2,6-Cl_2-Aniline		5.06			
58	**5-NO_2-Indazole**		**4.91**	-0.96[e]	-	197.8
59	**6-NO_2-Indazole**		**4.88**	-0.97[e]	-	197.7
60	2-NO_2-Aniline		4.80			
61	4-Cl-2-NO_2-Aniline		3.80			
62	2-Cl-4-NO2-Aniline		3.66			
63	**Uracil**		**3.38**	~0.5[o]	201.2	200.2
64	**Thymine**		**2.70**	~0[o]	203.2	203.1
65	2,3,4,5,6-Cl_5-Aniline		2.35			

[a] pK_a values measured in this work are bold and the rest are reference bases.[17,27] [b] Reference [22]. [c] GB or pK_a values calculated in this work. [d] Reference [4]. [e] Reference [5]. [f] Reference [6]. [g] Reference [7]. [h] Reference [8]. [i] Reference [16]. [j] Reference [9]. [k] Reference [10]. [l] Reference [11]. [m] Reference [12]. [n] Reference [13]. [o] Reference [28]. [p] Reference [14]. [q] Reference [15].