

ID	z	$\log(M_{\star})$ (M_{\odot})	$\log(L'_{\text{CO}})$ ($\text{K km s}^{-1} \text{ pc}^2$)	$\log(M_{\text{H}_2})$ (M_{\odot})	SFR ($M_{\odot} \text{ yr}^{-1}$)
(1)	(2)	(3)	(4)	(5)	(6)
Local star-forming galaxies (Saintonge et al. 2011)					
1	0.0395	10.0	7.9	8.6	0.4
2	0.0384	10.0	8.3	9.1	2.3
3	0.0375	10.0	8.4	9.1	1.4
4	0.0292	10.1	8.0	8.8	0.2
5	0.0484	10.8	8.7	9.4	1.2
6	0.0427	10.7	8.7	9.4	3.0
7	0.0380	10.1	8.3	9.0	0.7
8	0.0453	10.6	9.3	10.0	10.
9	0.0438	10.7	9.4	10.1	9.6
10	0.0427	10.9	9.5	10.2	6.3
11	0.0258	10.2	8.0	8.8	0.6
12	0.0324	10.2	7.9	8.6	0.4
13	0.0491	11.3	9.1	9.8	1.1
14	0.0417	10.7	8.8	9.5	1.4
15	0.0265	10.4	8.9	9.7	4.5
16	0.0262	10.4	8.4	9.1	0.9
17	0.0414	10.5	8.7	9.4	1.5
18	0.0416	10.5	8.6	9.4	4.3
19	0.0264	10.5	8.1	8.8	0.3
20	0.0296	10.3	8.8	9.5	2.4
21	0.0464	10.8	9.1	9.9	1.2
22	0.0345	10.1	8.1	8.8	0.4
23	0.0293	10.4	8.6	9.3	0.7
24	0.0344	10.1	8.5	9.2	1.1
25	0.0340	10.8	8.5	9.2	1.4
26	0.0462	10.8	8.7	9.5	1.8
27	0.0292	10.0	7.9	8.6	0.3
28	0.0328	10.4	7.9	8.6	0.1
29	0.0289	10.6	8.8	9.5	1.7
30	0.0368	10.5	8.6	9.3	2.3
31	0.0296	10.1	8.6	9.3	1.6
32	0.0334	10.6	8.6	9.4	0.7
33	0.0383	10.5	9.1	9.9	4.2
34	0.0323	10.5	8.4	9.1	0.3
35	0.0318	10.0	8.4	9.2	1.1
36	0.0489	10.8	8.8	9.6	5.3
37	0.0318	11.0	8.5	9.2	1.3
38	0.0285	10.3	8.5	9.3	0.8
39	0.0296	10.1	8.4	9.2	1.7
40	0.0299	10.2	8.4	9.2	0.6
41	0.0385	10.3	8.9	9.6	3.3
42	0.0411	10.5	8.8	9.5	1.9
43	0.0299	10.6	8.4	9.2	0.2
44	0.0346	10.5	8.8	9.5	0.9
45	0.0444	11.2	9.0	9.7	1.1
46	0.0317	10.9	9.5	10.2	3.7
47	0.0329	10.2	8.7	9.5	1.7
48	0.0448	11.1	8.6	9.4	1.3
49	0.0455	10.6	9.1	9.8	4.6
50	0.0468	11.1	9.0	9.8	1.4
51	0.0339	10.0	8.1	8.8	1.2
52	0.0316	10.3	7.9	8.6	0.1
53	0.0266	10.4	8.7	9.5	1.4
54	0.0324	10.6	7.8	8.5	0.1
55	0.0348	10.1	8.2	9.0	1.9
56	0.0394	11.1	9.3	10.0	3.6

57	0.0340	10.3	8.8	9.5	1.0
58	0.0340	11.0	7.9	8.7	0.1
59	0.0432	10.8	8.7	9.5	2.2
60	0.0496	11.3	8.8	9.6	0.9
61	0.0494	10.9	8.5	9.3	0.3
62	0.0341	10.8	9.3	10.0	2.3
63	0.0470	10.7	9.1	9.8	2.4
64	0.0270	10.2	8.4	9.2	1.2
65	0.0366	11.0	8.7	9.4	1.1
66	0.0260	10.4	8.0	8.8	0.1
67	0.0429	10.7	9.1	9.8	4.3
68	0.0492	10.9	8.9	9.7	4.4
69	0.0434	10.6	8.6	9.4	1.8
70	0.0431	11.0	8.7	9.4	0.8
71	0.0338	10.1	8.4	9.1	1.0
72	0.0305	10.1	8.5	9.2	1.2
73	0.0478	10.1	8.4	9.2	12.
74	0.0487	10.7	9.3	10.0	7.0
75	0.0376	11.0	9.2	9.9	2.7
76	0.0483	11.2	8.8	9.5	1.2
77	0.0350	10.9	9.3	10.0	5.3
78	0.0447	10.6	8.4	9.2	1.8
79	0.0343	10.7	8.1	8.8	0.4
80	0.0411	10.3	8.4	9.2	1.2
81	0.0462	11.3	8.9	9.7	1.3
82	0.0269	10.7	8.1	8.9	1.4
83	0.0258	10.7	8.8	9.6	0.7
84	0.0354	10.7	8.7	9.5	2.2
85	0.0267	10.5	7.9	8.6	0.2
86	0.0269	10.9	9.4	10.1	1.8
87	0.0293	10.8	8.7	9.5	0.5
88	0.0405	10.4	8.6	9.4	4.5
89	0.0308	10.6	8.9	9.7	1.0
90	0.0276	10.1	8.5	9.3	0.6
91	0.0464	10.7	9.1	9.8	3.5
92	0.0345	10.1	8.4	9.2	1.4
93	0.0367	10.8	8.4	9.2	0.6
94	0.0351	10.4	9.1	9.9	4.4
95	0.0368	10.7	9.3	10.0	4.9
96	0.0347	10.4	8.6	9.3	2.4
97	0.0435	10.8	9.0	9.7	3.1
98	0.0312	10.5	8.5	9.3	1.1
99	0.0419	11.2	9.3	10.1	20.
100	0.0318	10.5	8.4	9.2	0.8
101	0.0460	11.0	8.5	9.3	1.2
102	0.0428	11.1	8.3	9.0	0.5
103	0.0273	10.4	8.1	8.8	0.2
104	0.0355	10.2	8.3	9.1	0.3
105	0.0270	10.3	8.3	9.0	0.4
106	0.0275	10.0	8.5	9.3	1.5
107	0.0275	10.2	8.1	8.9	0.3
108	0.0258	10.0	7.9	8.7	0.1
109	0.0262	10.4	8.3	9.0	0.0
110	0.0257	10.5	8.1	8.8	0.7
111	0.0277	10.8	9.3	10.0	2.8
112	0.0271	10.4	8.5	9.2	2.5
113	0.0341	10.9	9.0	9.8	0.5
114	0.0394	10.1	8.5	9.3	0.3
115	0.0398	11.0	9.0	9.8	0.5
116	0.0298	10.7	8.9	9.7	1.3
117	0.0395	10.0	8.1	8.9	0.9
118	0.0256	10.1	8.5	9.2	1.0

119	0.0264	10.5	8.2	9.0	0.4
120	0.0260	10.0	8.4	9.2	1.1
121	0.0411	10.6	8.0	8.8	0.1
122	0.0428	10.2	8.3	9.1	1.8
123	0.0479	10.7	8.7	9.4	4.3
124	0.0363	10.6	8.9	9.7	3.1
125	0.0380	10.2	8.2	8.9	0.9

Intermediate-redshift star-forming galaxies (Freundlich et al. 2019)

1	0.7000	11.4	9.9	10.7	47.0
2	0.6227	10.9	9.0	9.7	47.0
3	0.7028	10.9	9.8	10.6	39.0
4	0.5297	10.3	9.6	10.5	25.0
5	0.5020	11.0	9.7	10.5	18.0
6	0.6223	11.2	9.6	10.4	21.0
7	0.7028	10.7	9.2	10.0	18.0
8	0.7026	11.4	9.3	10.1	20.0
9	0.7506	11.2	9.7	10.5	28.0
10	0.7007	11.6	9.7	10.5	23.0
11	0.6967	11.0	9.5	10.3	24.0
12	0.6077	11.3	9.5	10.2	11.0
13	0.6793	10.9	9.4	10.2	26.0
14	0.5165	11.2	9.2	10.0	14.0
15	0.7021	11.0	9.6	10.3	22.0
16	0.5172	10.2	9.4	10.2	28.0
17	0.6248	10.7	9.8	10.6	23.0
18	0.7503	10.3	9.1	9.9	13.0
19	0.5024	10.1	9.4	10.3	29.0
20	0.6885	10.4	9.1	9.9	8.8
21	0.5015	10.7	9.1	9.9	4.1
22	0.6081	10.9	9.6	10.3	13.0
23	0.6976	10.4	9.4	10.2	21.0
24	0.6985	10.4	9.6	10.4	29.0
25	0.7007	10.5	9.4	10.2	10.0
26	0.6590	11.1	9.8	10.5	51.0
27	0.6702	11.2	9.7	10.5	29.0
28	0.5093	11.2	9.6	10.3	37.0
29	0.7541	10.3	9.5	10.4	28.0
30	0.5090	10.3	9.3	10.1	11.0
31	0.7683	10.7	9.5	10.3	19.0
32	0.6593	11.1	9.6	10.4	14.0
33	0.7560	10.2	8.9	9.7	13.0
34	0.5010	10.4	9.0	9.8	7.4
35	0.7315	10.9	9.9	10.7	79.0
36	0.7359	10.0	9.4	10.3	9.9
37	0.6702	10.7	9.1	9.8	9.3
38	0.5705	10.7	9.5	10.3	25.0
39	0.5447	11.0	9.0	9.8	9.1
40	0.7099	10.9	8.9	9.7	5.9
41	0.7369	10.9	9.0	9.7	13.0
42	0.6445	10.6	9.1	9.9	6.6
43	0.7610	10.4	9.4	10.2	44.0
44	0.6790	10.6	< 9.3	< 10.1	23.0
45	0.7800	10.6	9.7	10.5	29.0
46	0.7790	10.4	9.5	10.3	21.0
47	0.7720	10.5	9.3	10.1	14.0
48	0.6382	10.0	9.0	9.9	11.0
49	0.5110	10.5	9.3	10.1	8.5
50	0.7784	10.2	9.3	10.1	13.0
51	0.7880	10.5	9.5	10.3	22.0
52	0.6825	10.3	9.7	10.5	23.0
53	0.5950	10.8	9.5	10.3	8.9

54	0.5035	10.2	9.1	9.9	5.5
55	0.7837	10.3	9.3	10.2	32.0
56	0.6380	10.7	9.8	10.6	76.0
57	0.5561	10.1	8.5	9.4	6.8
58	0.5320	10.6	8.8	9.6	3.5
59	0.5605	11.1	8.8	9.6	7.6
60	0.5609	10.0	8.8	9.7	6.7
61	0.5200	10.8	9.8	10.6	8.7

High-redshift star-forming galaxies (Tacconi et al. 2013))

1	1.0230	10.6	9.8	10.8	100.0
2	1.0170	10.9	10.2	11.1	150.0
3	1.0260	10.9	9.6	10.6	53.0
4	1.1600	10.7	9.9	10.8	94.0
5	1.2820	10.4	9.5	10.5	6.4
6	1.1190	11.0	10.2	11.1	–
7	1.3740	10.6	9.7	10.7	113.0
8	1.3790	10.6	10.0	11.0	163.0
9	1.3510	10.7	9.5	10.5	115.0
10	1.3980	10.7	9.7	10.7	78.0
11	1.0020	10.3	9.5	10.5	31.0
12	1.1590	10.4	9.2	10.2	89.0
13	1.2300	11.2	10.3	11.3	200.0
14	1.1450	10.9	10.6	11.5	3.9
15	1.1920	10.4	9.5	10.5	60.0
16	1.0140	11.0	9.9	10.9	42.0
17	1.1730	11.0	9.7	10.6	52.0
18	1.0120	11.0	10.1	11.0	201.0
19	1.5290	11.0	10.4	11.4	373.0
20	1.0990	10.9	9.8	10.7	–
21	1.1800	11.1	10.1	11.0	88.0
22	1.0370	10.8	10.0	10.9	351.0
23	1.0520	10.6	9.7	10.7	35.0
24	1.0310	10.6	9.5	10.5	55.0
25	1.2270	11.0	9.0	10.0	–
26	1.1050	10.8	9.8	10.8	–
27	1.2290	10.7	9.5	10.5	–
28	1.1050	10.8	9.7	10.7	47.0
29	1.3500	10.6	9.6	10.6	87.0
30	1.2410	11.1	10.2	11.1	113.0
31	1.3170	10.9	10.0	10.9	148.0
32	1.3170	10.4	9.6	10.6	28.0
33	1.1680	11.0	9.5	10.5	–
34	1.4400	10.8	9.7	10.7	86.0
35	1.4350	10.7	9.2	10.2	–
36	1.1150	11.1	10.0	10.9	87.0
37	1.3930	10.5	9.4	10.4	55.0
38	2.1960	9.97	10.6	10.9	480.0
39	2.1870	10.7	9.6	10.5	80.0
40	–	< 10.0	10.5	< 11.0	246.0
41	2.1820	10.4	10.0	10.9	246.0
42	2.2680	< 9.7	10.8	< 10.6	59.0
43	2.3300	10.7	9.7	10.6	–
44	-99.00	< 9.9	10.8	< 10.8	144.0
45	2.3330	11.1	10.5	11.5	271.0
46	2.2890	11.2	10.0	10.9	164.0
47	2.3400	11.3	10.2	11.2	159.0
48	–	< 10.0	10.8	< 11.0	-0
49	2.4340	11.0	9.5	10.5	17.0
50	2.1890	10.8	9.6	10.6	50.0
51	2.2110	11.0	10.4	11.3	212.0
52	2.1090	10.4	9.5	10.5	–

53	2.1750	11.0	9.8	10.7	145.0
54	2.0110	10.8	10.7	10.9	26.0
55	–	< 10.1	10.6	< 11.0	196.0
56	–	< 9.9	11.1	< 10.8	62.0
57	2.2640	9.77	9.9	10.9	34.0
Local quiescent galaxies (Davis et al. 2016)					
1	0.0183	11.6	8.3	9.0	0.3
2	0.0176	11.6	8.4	9.1	0.2
3	0.0162	11.7	< 8.1	8.8	< 0.15
4	0.0213	11.6	8.5	9.2	0.4
5	0.0230	11.7	< 7.9	< 8.6	0.1
6	0.0165	11.7	< 7.8	8.5	0.2
7	0.0207	11.6	8.3	9.1	0.7
8	0.0149	11.6	8.5	9.2	0.3
9	0.0139	11.7	< 8.1	< 8.8	0.0
10	0.0211	11.8	< 7.7	8.4	0.2
11	0.0247	11.7	8.7	9.4	0.5
12	0.0245	11.6	< 8.1	< 8.9	2.8
13	0.0145	11.7	< 7.9	< 8.6	< 0.17
14	0.0163	11.7	< 8.9	9.6	0.2
15	0.0243	11.8	< 7.8	< 8.6	0.8
Intermediate-redshift quiescent galaxies (Spilker et al. 2018)					
110509	0.6670	11.0	9.1	9.9	0.8
130284	0.6020	10.9	9.2	10.0	2.7
132776	0.7500	10.9	9.3	10.0	3.1
138718	0.6560	11.2	< 9.0	< 9.8	2.1
169076	0.6770	11.4	< 9.1	< 9.9	0.5
210210	0.6540	11.3	< 9.0	< 9.8	< 0.1
211409	0.7140	11.1	< 8.9	< 9.7	< 0.1
High-redshift quiescent galaxies (Sargent et al. 2015)					
pBzK-217431	1.4277	11.8	< 9.9	< 10.6	0.03
High-redshift quiescent galaxies (Hayashi et al. 2018)					
Stack	1.4600	11.0	-Na	< 9.9	1.0
High-redshift quiescent galaxies (Rudnik et al. 2017)					
30169	1.6290	11.2	9.8	10.5	12.0
High-redshift quiescent galaxies (Williams et al. 2020)					
22260	1.240	11.5	< 1.3	< 1.0	3.6
20866	1.522	11.5	< 0.9	< 1.1	12.8
34879	1.322	11.3	< 0.5	< 0.7	22.9
34265	1.582	11.5	< 0.8	< 1.0	7.4
21434	1.522	11.4	< 0.9	< 1.1	19.1
307881	1.429	11.6	< 0.7	< 0.9	5.0
Low-redshift post-SBs (French et al. 2015)					
EAH01	0.0478	10.5	2.1	2.8	0.06
EAH02	0.0541	10.0	1.9	2.6	5.03
EAH03	0.0449	10.3	2.2	2.8	0.02
EAH04	0.0269	10.2	1.0	1.6	0.07
EAH05	0.0653	10.0	2.0	2.6	0.06
EAH06	0.0441	10.5	< 1.4	< 2.0	5.37
EAH07	0.038	10.7	< 1.0	< 1.6	0.22
EAH08	0.0604	10.4	1.6	2.2	0.04
EAH09	0.0291	10.2	0.9	1.5	0.06
EAH10	0.1053	10.2	2.3	2.9	0.04
EAH11	0.0542	10.6	< 1.6	< 2.2	0.17
EAH12	0.0826	10.6	< 1.8	< 2.4	0.18
EAH13	0.1129	11.0	2.3	2.9	0.62
EAH14	0.0622	10.0	< 1.7	< 2.3	0.10
EAH15	0.0411	10.4	< 1.4	< 2.0	0.06
EAH16	0.1113	10.7	< 2.2	< 2.8	0.51

EAH17	0.0481	10.1	< 1.4	< 2.0	0.05
EAS01	0.0196	10.2	< 0.8	< 1.4	0.01
EAS02	0.0231	10.1	1.1	1.8	0.03
EAS03	0.0628	10.9	2.2	2.8	0.17
EAS04	0.0153	10.0	< 0.1	< 0.7	8.01
EAS05	0.0467	10.6	1.5	2.1	0.11
EAS06	0.0227	10.1	1.6	2.3	0.06
EAS07	0.0325	10.5	< 1.0	< 1.6	0.04
EAS08	0.0408	10.7	< 1.0	< 1.6	0.06
EAS09	0.027	10.6	1.5	2.2	0.04
EAS10	0.0381	10.5	< 1.2	< 1.8	0.02
EAS11	0.0395	10.7	< 1.2	< 1.8	0.08
EAS12	0.0336	10.0	0.9	1.6	0.03
EAS13	0.0462	11.0	< 1.5	< 2.1	0.09
EAS14	0.0826	11.3	2.1	2.7	0.41
EAS15	0.0533	10.8	1.5	2.1	0.17
Low-redshift post-SBs (Rowlands et al. 2015)					
PSB1	0.039	9.3	< 8.0	< -0.5	10.96
PSB2	0.036	10.5	8.9	0.6	1.62
PSB3	0.032	9.5	7.8	-0.5	5.50
PSB4	0.029	9.8	8.7	0.3	5.50
PSB5	0.034	9.5	8.8	0.4	6.31
PSB6	0.043	10.5	9.0	0.6	2.51
PSB7	0.047	10.1	8.8	0.5	0.74
PSB8	0.046	9.9	8.2	-0.1	0.11
PSB9	0.049	10.1	8.9	0.5	0.69
PSB10	0.034	10.0	8.6	0.3	1.70
PSB11	0.048	10.5	8.2	-0.2	0.15
Intermediate-redshift post-SBs (Suess et al. 2017)					
SDSSJ0912+1523	0.7470	11.2	9.9	10.7	52.0
SDSSJ2202-0033	0.6570	11.1	9.1	10.0	12.0
Intermediate-redshift post-SBs (Bezanson et al. 2021)					
SDSS J1448+1010	0.6462	11.6	9.7	10.3	1.06
SDSS J0753+2403	0.5652	11.3	< 8.6	< 9.3	0.10
SDSS J1053+2342	0.6370	11.6	< 8.9	< 9.6	0.29
SDSS J0027+0129	0.5851	11.5	< 8.8	< 9.4	1.44
SDSS J2202-0033	0.6573	11.7	9.2	9.9	1.99
SDSS J2258+2313	0.7058	11.8	10.1	10.8	0.94
SDSS J0233+0052	0.5918	11.6	< 8.7	< 9.4	0.01
SDSS J0046-0147	0.6088	11.6	< 8.8	< 9.4	0.14
SDSS J1109-0040	0.5935	11.3	9.6	10.2	2.33
SDSS J1203+1807	0.5946	11.4	< 8.7	< 9.3	0.02
SDSS J1007+2330	0.6353	11.6	< 8.9	< 9.6	0.89
SDSS J0912+1523	0.7473	11.4	9.9	10.6	0.81
SDSS J1302+1043	0.5921	11.6	9.6	10.2	0.26
High-redshift post-SBs (Bezanson et al. 2019)					
C21434	1.5220	11.2	< 9.3	< 10.0	< 1.4
High-redshift post-SBs (Belli et al. 2021)					
EGS-17533	1.2640	10.7	9.1	9.8	6.4

Table 1: Compilation of literature data used in this paper.

Columns: (1) Galaxy ID; (2) Redshift; (3) Stellar mass; (4) CO luminosity; (5) Molecular gas mass; (6) Star formation rate.

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