

Table: Data of 37 samples from the excavations of Tarsus Gzlkule.

Concentrations of elements C measured by NAA, University Bonn, in mikrog/g (ppm), if not indicated otherwise, and average errors, also in percent of C. Missing values are below detection limit.

Sample	factor	As	Ba	Br	Ca%	Ce	Co	Cr	Cs	Eu	Fe%
Tars 1	1.000	5.96	315.	2.08	9.06	65.2	26.6	209.	9.17	1.17	5.20
Tars 2	1.000	7.82	327.	3.61	8.11	55.8	21.8	496.	6.74	0.93	3.97
Tars 3	1.000	–	456.	–	–	67.2	24.3	507.	6.24	1.14	4.32
Tars 4	1.000	9.46	343.	3.29	7.96	50.4	20.3	549.	5.19	0.87	3.24
Tars 5	1.000	13.5	300.	5.68	10.1	51.1	20.8	611.	4.70	0.94	3.35
Tars 6	1.000	11.5	502.	3.20	2.66	80.4	15.6	164.	21.2	1.35	4.25
Tars 7	1.000	10.2	522.	4.30	6.58	61.7	22.3	81.2	3.67	1.00	4.04
Tars 8	1.000	4.73	478.	2.76	5.96	66.9	20.5	72.5	3.75	1.10	3.86
Tars 9	1.000	5.51	489.	2.75	7.25	60.4	20.1	87.2	3.74	1.04	4.04
Tars 10	1.000	19.4	388.	7.49	9.14	59.0	18.6	70.2	3.08	1.08	3.44
Tars 11	1.000	4.98	474.	4.51	12.3	77.4	32.5	138.	5.18	1.54	6.25
Tars 12	1.000	13.2	403.	4.66	6.96	59.3	20.9	94.1	2.87	1.17	4.11
Tars 13	1.000	38.4	561.	2.94	7.47	63.6	22.9	104.	3.71	1.16	4.01
Tars 14	1.000	11.3	328.	5.09	9.84	39.6	27.9	372.	3.69	0.96	4.85
Tars 15	1.000	3.70	521.	3.17	5.80	70.2	21.3	77.9	3.43	1.32	3.83
Tars 16	1.000	16.1	249.	3.21	14.6	59.6	24.1	283.	4.78	1.00	4.06
Tars 17	1.000	12.9	230.	3.92	13.9	51.0	21.9	280.	5.20	0.89	3.64
Tars 18	1.000	12.7	229.	4.12	13.4	49.1	20.2	314.	5.58	0.84	3.58
Tars 19	1.000	114.	687.	5.50	1.42	107.	20.1	121.	11.7	1.43	4.18
Tars 20	1.000	15.0	442.	8.77	10.5	48.0	19.8	462.	5.79	0.91	3.41
Tars 21	1.000	8.50	304.	7.39	7.86	51.8	19.8	413.	5.87	0.92	3.56
Tars 22	1.000	39.4	1124.	6.92	1.65	86.5	10.2	134.	11.0	1.38	3.42
Tars 23	1.000	17.6	342.	4.81	8.60	39.3	25.3	99.2	2.77	0.96	5.22
Tars 24	1.000	6.70	326.	2.13	4.27	65.8	19.8	78.2	3.91	1.07	4.06
Tars 25	1.000	6.84	208.	4.86	6.84	56.6	19.5	85.3	2.61	0.99	3.90
Tars 26	1.000	6.31	355.	3.27	7.10	57.4	20.7	100.	3.45	1.04	4.38
Tars 27	1.000	13.9	324.	0.86	11.0	57.2	25.0	522.	6.84	1.00	4.14
Tars 28	1.000	10.7	705.	6.06	9.63	50.8	21.1	460.	6.06	0.92	3.66
Tars 29	1.000	10.1	312.	10.1	7.10	59.4	24.6	465.	6.64	0.97	3.99
Tars 30	1.000	19.6	1020.	5.51	13.2	84.2	21.3	188.	3.01	2.18	5.77
Tars 31	1.000	19.4	290.	4.52	9.58	42.4	22.2	551.	6.04	0.76	3.73
Tars 32	1.000	18.1	522.	2.74	5.42	149.	21.0	157.	7.49	2.13	4.45
Tars 33	1.000	12.2	234.	3.79	13.1	37.7	16.7	240.	4.82	0.72	3.34
Tars 34	1.000	50.8	604.	8.89	11.5	35.8	14.9	305.	3.62	0.61	3.06
Tars 35	1.000	10.5	230.	9.20	13.9	46.4	18.2	282.	3.35	0.80	2.81
Tars 36	1.000	19.9	341.	4.74	13.9	43.8	16.5	274.	3.12	0.76	3.07
Tars 37T	1.000	22.8	240.	4.28	8.70	76.2	26.4	1474.	5.68	1.20	4.85
ave. meas.											
error		0.10	14.	0.32	0.17	1.0	0.12	1.5	0.081	0.021	0.014
in %		0.6	3.3	6.9	1.9	1.7	0.6	0.5	1.5	1.9	0.4
#		36.	37.	36.	36.	37.	37.	37.	37.	37.	37.

Table: Data of 37 samples from the excavations of Tarsus Gzlkule.

Sample	factor	Ga	Hf	K %	La	Lu	Na%	Nd	Ni	Rb	Sb
Tars 1	1.000	18.9	3.66	2.56	32.6	0.44	0.66	28.3	286.	146.	0.60
Tars 2	1.000	13.4	4.79	2.28	25.6	0.35	0.89	20.8	240.	106.	1.09
Tars 3	1.000	–	4.42	–	–	0.40	–	28.3	190.	91.7	1.20
Tars 4	1.000	7.60	4.52	2.28	23.6	0.29	0.95	18.7	195.	89.6	1.09
Tars 5	1.000	6.94	4.65	1.87	23.5	0.32	0.90	18.7	155.	72.8	0.98
Tars 6	1.000	19.1	6.56	2.95	39.6	0.51	0.83	32.7	76.9	165.	0.87
Tars 7	1.000	13.5	3.32	1.60	27.1	0.35	0.46	21.3	82.1	66.5	0.52
Tars 8	1.000	14.7	3.34	1.46	29.4	0.35	0.29	22.9	106.	66.5	0.47
Tars 9	1.000	15.9	3.22	1.57	27.2	0.34	0.38	20.7	87.7	61.2	0.46
Tars 10	1.000	10.6	2.97	1.38	25.9	0.33	0.48	21.7	87.6	57.4	0.43
Tars 11	1.000	17.1	4.52	2.17	36.3	0.56	0.86	30.4	169.	95.4	0.84
Tars 12	1.000	11.4	3.18	1.51	25.4	0.38	0.80	23.9	116.	57.2	0.49
Tars 13	1.000	14.7	3.54	1.67	28.3	0.32	0.36	22.9	116.	62.9	0.78
Tars 14	1.000	12.8	3.14	2.16	19.2	0.36	1.15	17.1	244.	64.3	0.97
Tars 15	1.000	11.9	3.61	1.53	30.2	0.37	1.02	27.1	99.9	61.0	0.66
Tars 16	1.000	15.1	3.66	2.01	28.7	0.33	0.41	21.1	242.	79.9	1.03
Tars 17	1.000	10.7	3.38	2.29	24.0	0.29	0.50	19.7	251.	76.7	0.80
Tars 18	1.000	12.2	3.11	1.97	24.7	0.29	0.59	16.7	193.	75.1	0.93
Tars 19	1.000	15.3	7.14	3.39	52.6	0.43	1.46	36.7	168.	157.	1.64
Tars 20	1.000	7.86	4.28	2.28	23.0	0.32	0.91	18.2	155.	83.7	1.20
Tars 21	1.000	13.9	4.45	2.53	24.2	0.32	1.12	18.5	221.	94.1	1.23
Tars 22	1.000	18.4	6.28	3.30	45.4	0.40	1.71	31.5	88.2	147.	2.23
Tars 23	1.000	12.9	2.85	1.69	19.9	0.41	0.99	17.9	144.	53.6	0.56
Tars 24	1.000	18.4	3.39	1.48	29.5	0.36	0.42	22.4	48.8	69.1	0.42
Tars 25	1.000	15.8	3.05	1.98	24.2	0.35	0.50	18.6	94.7	53.6	0.60
Tars 26	1.000	17.5	3.42	1.57	26.3	0.37	0.51	19.3	102.	66.5	0.62
Tars 27	1.000	12.2	5.06	1.93	26.6	0.34	1.12	20.0	207.	80.6	1.18
Tars 28	1.000	16.0	4.23	2.23	24.1	0.33	1.05	18.6	183.	95.8	1.12
Tars 29	1.000	7.78	5.09	2.37	27.3	0.33	1.05	21.3	274.	99.1	1.33
Tars 30	1.000	25.1	8.51	1.26	48.2	0.70	0.25	39.8	190.	56.2	1.02
Tars 31	1.000	11.3	2.83	2.78	20.3	0.26	0.62	14.3	265.	88.7	0.98
Tars 32	1.000	31.5	5.74	3.25	68.2	0.65	0.42	55.1	116.	123.	0.50
Tars 33	1.000	11.4	2.27	1.92	18.4	0.24	0.48	13.6	261.	63.4	1.38
Tars 34	1.000	11.1	3.18	2.66	16.9	0.23	0.59	12.7	173.	67.6	0.83
Tars 35	1.000	5.30	2.96	2.05	20.0	0.26	0.70	14.6	112.	54.6	0.76
Tars 36	1.000	11.7	3.01	2.27	19.7	0.25	0.58	15.0	261.	54.8	0.71
Tars 37T	1.000	13.1	5.46	1.60	31.9	0.40	0.36	24.9	267.	86.6	1.49
ave. meas.											
error		1.5	0.054	0.018	0.17	0.014	0.003	0.87	32.	2.0	0.063
in %		11.	1.3	0.9	0.6	3.7	0.5	3.8	19.	2.4	6.9
#		36.	37.	36.	36.	37.	36.	37.	37.	37.	37.

Table: Data of 37 samples from the excavations of Tarsus Gzlkule.

Sample	factor	Sc	Sm	Ta	Tb	Th	U	W	Yb	Zn	Zr
Tars 1	1.000	21.1	5.27	0.79	0.70	11.4	2.34	1.71	2.76	112.	29.8
Tars 2	1.000	15.3	4.01	0.80	0.55	10.8	1.79	1.54	2.29	68.6	105.
Tars 3	1.000	15.7	–	0.86	0.56	9.82	–	–	–	158.	178.
Tars 4	1.000	12.4	3.49	0.65	0.50	8.98	1.67	1.56	1.94	75.9	73.2
Tars 5	1.000	13.2	3.68	0.71	0.55	9.00	1.76	1.40	2.15	74.4	124.
Tars 6	1.000	20.8	5.97	1.34	0.76	17.0	4.26	2.63	3.34	104.	63.3
Tars 7	1.000	14.2	4.01	1.03	0.58	7.34	1.25	1.44	2.24	84.2	66.9
Tars 8	1.000	13.0	4.28	0.99	0.64	7.66	1.25	1.29	2.27	89.0	61.4
Tars 9	1.000	14.6	4.02	0.97	0.61	6.96	1.23	1.83	2.25	84.9	89.6
Tars 10	1.000	12.2	4.08	0.90	0.67	6.95	1.55	0.99	2.12	78.4	53.5
Tars 11	1.000	25.7	6.08	1.12	0.92	9.93	2.11	1.35	3.39	129.	90.3
Tars 12	1.000	15.5	4.64	0.91	0.68	7.23	1.24	1.28	2.31	82.4	77.4
Tars 13	1.000	13.8	4.43	1.08	0.65	7.45	2.31	1.09	2.20	70.5	54.8
Tars 14	1.000	20.3	3.43	0.58	0.58	6.14	1.85	1.27	2.18	94.8	69.4
Tars 15	1.000	13.3	5.31	1.07	0.71	8.86	1.39	1.71	2.29	87.3	115.
Tars 16	1.000	15.1	4.19	0.79	0.58	9.72	2.66	1.70	2.17	125.	–
Tars 17	1.000	13.5	3.62	0.74	0.54	8.33	2.27	1.23	1.95	119.	57.0
Tars 18	1.000	14.0	3.11	0.60	0.42	8.13	2.01	1.57	1.83	89.2	43.7
Tars 19	1.000	14.7	6.26	1.30	0.71	26.9	6.86	3.22	2.91	95.0	–
Tars 20	1.000	13.2	3.39	0.69	0.49	9.15	1.75	1.68	2.06	74.7	71.9
Tars 21	1.000	13.7	3.53	0.75	0.42	9.51	1.67	2.04	2.02	65.1	60.6
Tars 22	1.000	12.8	5.63	1.20	0.69	20.0	4.31	2.33	2.94	101.	–
Tars 23	1.000	23.0	3.67	0.64	0.56	5.61	2.07	1.36	2.37	101.	–
Tars 24	1.000	14.1	4.02	1.01	0.64	7.28	1.46	1.63	2.25	77.5	64.7
Tars 25	1.000	14.6	3.63	0.91	0.57	6.28	1.35	1.34	2.14	94.5	90.2
Tars 26	1.000	16.5	3.90	0.88	0.62	6.70	1.51	1.78	2.28	82.6	103.
Tars 27	1.000	16.2	3.76	0.76	0.46	10.4	2.07	2.13	2.18	83.9	103.
Tars 28	1.000	14.4	3.55	0.76	0.49	10.1	1.94	2.05	2.19	68.6	91.1
Tars 29	1.000	15.1	4.07	0.75	0.58	11.7	1.86	1.58	2.11	74.0	79.5
Tars 30	1.000	19.6	8.10	1.48	1.34	11.1	4.78	1.43	5.09	137.	135.
Tars 31	1.000	14.1	2.82	0.62	0.43	8.49	2.64	1.77	1.69	93.2	–
Tars 32	1.000	21.4	9.91	1.55	1.25	22.5	4.58	2.22	4.84	123.	41.9
Tars 33	1.000	12.9	2.55	0.57	0.37	6.68	1.86	1.14	1.61	93.9	33.9
Tars 34	1.000	11.0	2.30	0.60	0.39	6.92	3.91	1.19	1.46	83.2	–
Tars 35	1.000	10.2	2.84	0.58	0.46	7.69	1.45	1.20	1.71	77.9	97.8
Tars 36	1.000	10.8	2.86	0.57	0.41	7.07	1.98	1.32	1.67	81.4	26.7
Tars 37T	1.000	15.2	4.66	0.93	0.78	10.4	2.48	2.10	2.80	105.	128.
ave. meas.											
error		0.020	0.010	0.028	0.041	0.058	0.100	0.12	0.051	1.9	25.
in %		0.1	0.2	3.2	6.6	0.6	4.3	7.4	2.1	2.1	31.
#		37.	36.	37.	37.	37.	36.	36.	36.	37.	31.