

Tab. S4 Approximate DF1 and DF2 centroid or mean values for the three tectonic fields for the set of five diagrams for intermediate magmas proposed by Verma and Verma (2013) and acid magmas by Verma et al. (2012, 2013)

Equation characteristics DFn _{(TF1-TF2-TF3)figt}	Equation numbers (D), (E), (F)	Approximate centroid values of DF1 and DF2 obtained from LDA					
		(TF1) _{figt}		(TF2) _{figt}		(TF3) _{figt}	
		mdf1 _{g1}	mdf2 _{g1}	mdf1 _{g2}	mdf2 _{g2}	mdf1 _{g3}	mdf2 _{g3}
(IA+CA-CR+OI-Col)mint	(71–73), (74–76), (77–79)	0.81	–0.26	–1.96	–0.63	–0.46	1.84
(IA–CA–CR+OI)mint	(80–82), (83–85), (86–88)	0.75	–0.32	0.66	0.71	–2.07	–0.02
(IA–CA–Col)mint	(89–91), (92–94), (95–97)	0.66	0.28	0.29	–0.70	–2.08	0.12
(IA–CR+OI–Col)mint	(98–100), (101–103), (104–106)	1.07	–0.32	–1.76	–0.70	–0.44	1.77
(CA–CR+OI–Col)mint	(107–109), (110–112), (113–115)	0.89	0.99	–1.47	0.006	0.88	–1.22
(IA+CA–CR–Col)m3	(116–118), (119–121), (122–124)	1.03	0.19	–1.47	1.34	–0.82	–1.42
(IA–CA–CR)m3	(125–127), (128–130), (131–133)	–1.25	–0.55	–0.39	0.80	2.04	–0.25
(IA–CA–Col)m3	(134–136), (137–139), (140–142)	–1.51	0.35	–0.23	–0.62	1.72	0.23
(IA–CR–Col)m3	(143–145), (146–148), (149–151)	2.06	–0.17	–0.87	1.50	–1.37	–1.01
(CA–CR–Col)m3	(152–154), (155–157), (158–160)	–0.59	1.15	1.61	–0.08	–0.72	–1.00
(IA+CA–CR+OI–Col)macid	(161–163), (164–166), (167–169)	1.46	0.12	–1.18	0.65	–0.76	–1.66
(IA–CA–CR+OI)macid	(170–172), (173–175), (176–178)	–1.93	0.71	–0.82	–0.86	1.38	0.17
(IA–CA–Col)macid	(179–181), (182–184), (185–187)	–1.62	–0.63	–0.33	0.78	2.05	–0.34
(IA–CR+OI–Col)macid	(188–190), (191–193), (194–196)	–2.59	0.05	0.79	–0.68	0.90	1.43
(CA–CR+OI–Col)macid	(197–199), (200–202), (203–205)	1.68	–0.32	–0.88	–0.52	–0.21	1.54
(IA+CA–CR+OI–Col)mtint	(206–208), (209–211), (212–214)	0.87	0.18	–2.41	0.93	–0.95	–1.40
(IA–CA–CR+OI)mtint	(215–217), (218–220), (221–223)	0.79	0.25	0.31	–0.75	–2.67	0.12
(IA–CA–Col)mtint	(224–226), (227–229), (230–232)	–0.68	–0.24	–0.23	0.75	1.89	–0.13
(IA–CR+OI–Col)mtint	(233–235), (236–238), (239–241)	–1.07	0.24	2.23	0.89	0.76	–1.34
(CA–CR+OI–Col)mtint	(242–244), (245–247), (248–250)	–1.74	0.51	1.57	1.00	0.35	–1.32
(IA+CA–CR+OI–Col)mtacid	(251–253), (254–256), (257–259)	–1.25	0.35	1.30	0.38	0.04	–1.37
(IA–CA–CR+OI)mtacid	(260–262), (263–265), (266–268)	–1.99	0.66	–0.60	–0.89	1.27	0.22
(IA–CA–Col)mtacid	(269–271), (272–274), (275–277)	–1.72	0.39	0.05	–0.69	1.39	0.43
(IA–CR+OI–Col)mtacid	(278–280), (281–283), (284–286)	–2.34	0.18	0.83	0.62	0.45	–1.28
(CA–CR+OI–Col)mtacid	(287–289), (290–292), (293–295)	–1.20	0.69	1.04	0.15	–0.59	–1.03
(IA+CA–CR+OI–Col)tint	(296–298), (299–301), (302–304)	–0.98	–0.10	2.04	–0.58	1.11	1.96
(IA–CA–CR+OI)tint	(305–307), (308–310), (311–313)	–1.11	0.27	–0.35	–0.78	2.25	0.14
(IA–CA–Col)tint	(314–316), (317–319), (320–322)	–0.69	0.23	0.17	–0.71	2.54	0.35
(IA–CR+OI–Col)tint	(323–325), (326–328), (329–331)	–1.29	0.12	1.85	0.59	1.04	–1.83
(CA–CR+OI–Col)tint	(332–334), (335–337), (338–340)	–1.53	–0.46	1.23	–0.44	–0.02	1.86
(IA+CA–CR+OI–Col)tacid	(341–343), (344–346), (347–349)	–0.97	–0.47	1.91	–0.69	0.17	1.04
(IA–CA–CR+OI)tacid	(350–352), (353–355), (356–358)	–2.26	1.29	–0.38	–0.99	2.16	0.66
(IA–CA–Col)tacid	(359–361), (362–364), (365–367)	–2.92	0.31	–0.11	–0.41	1.30	0.25
(IA–CR+OI–Col)tacid	(368–370), (371–373), (374–376)	–3.72	–0.48	0.37	1.78	1.31	–0.86
(CA–CR+OI–Col)tacid	(377–379), (380–382), (383–385)	–0.91	–0.75	1.81	–0.39	–0.23	0.94