

Tab. S2 Approximate coefficients for log-ratios of combined major and trace element-based DF1 and DF2 equations for the set of five diagrams for intermediate magmas proposed by Verma and Verma (2013) and acid magmas by Verma et al. (2013)

Equation characteristics DFn _{(TF1-TF2-TF3)figt}	Equation Number (B)	Approximate coefficient values obtained from LDA							
		C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C _C	
DF1 _{(IA+CA-CR+OI-Col)mtint}	(31)	1.023	0.631	-0.939	-0.415	1.677	0.454	0.583	1.901
DF2 _{(IA+CA-CR+OI-Col)mtint}	(32)	0.249	-0.477	-0.336	-0.131	-1.712	0.214	-2.008	-18.638
DF1 _{(IA-CA-CR+OI)mtint}	(33)	0.875	0.428	-0.686	-0.372	1.924	0.835	0.843	8.228
DF2 _{(IA-CA-CR+OI)mtint}	(34)	-1.172	-2.651	0.176	0.118	-0.185	1.921	0.387	12.452
DF1 _{(IA-CA-Col)mtint}	(35)	-0.801	0.125	0.908	0.320	-0.368	-0.641	0.723	8.109
DF2 _{(IA-CA-Col)mtint}	(36)	1.317	2.200	-0.124	-0.134	-0.872	-1.783	-1.365	-20.630
DF1 _{(IA-CR+OI-Col)mtint}	(37)	-0.856	-0.301	0.862	0.385	-1.583	-0.757	-0.692	-4.469
DF2 _{(IA-CR+OI-Col)mtint}	(38)	0.215	-0.504	-0.323	-0.122	-1.710	0.426	-1.981	-17.041
DF1 _{(CA-CR+OI-Col)mtint}	(39)	-1.256	-1.082	1.438	0.545	-1.620	0.337	-1.714	5.752
DF2 _{(CA-CR+OI-Col)mtint}	(40)	-0.024	-0.054	-0.861	-0.174	-1.641	0.069	-1.772	-21.028
DF1 _{(IA+CA-CR+OI-Col)mtacid}	(41)	-0.091	-0.228	0.729	—	—	-0.237	0.577	4.704
DF2 _{(IA+CA-CR+OI-Col)mtacid}	(42)	-0.268	-1.253	-0.476	—	—	0.209	-0.082	-3.709
DF1 _{(IA-CA-CR+OI)mtacid}	(43)	-0.018	-0.025	1.060	—	—	-0.530	0.301	4.701
DF2 _{(IA-CA-CR+OI)mtacid}	(44)	-0.197	0.118	-0.724	—	—	1.099	0.742	3.702
DF1 _{(IA-CA-Col)mtacid}	(45)	0	0.248	1.183	—	—	-0.861	0.136	3.988
DF2 _{(IA-CA-Col)mtacid}	(46)	0	1.129	-0.382	—	—	1.126	0.682	7.274
DF1 _{(IA-CR+OI-Col)mtacid}	(47)	0.095	-0.079	1.104	—	—	-0.900	0.333	2.771
DF2 _{(IA-CR+OI-Col)mtacid}	(48)	-0.298	-0.998	-0.279	—	—	0.339	0.171	-0.805
DF1 _{(CA-CR+OI-Col)mtacid}	(49)	-0.081	-0.432	0.444	—	—	-0.131	0.824	3.726
DF2 _{(CA-CR+OI-Col)mtacid}	(50)	-0.341	-1.110	-0.754	—	—	0.271	-0.377	-5.425