

Name	Parameters	Indep. Var.	Depend. Var.	Function
1pKa	A,AH,pK1	x	y	$(A+AH*10^{(pK1-x)})/(1+10^{(pK1-x)})$
2pKa	A, AH, AH2, pK1, pK2	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK2+pK1-2*x)})/(1+10^{(pK1-x)}+10^{(pK2+pK1-2*x)})$
3pKa	A,AH,AH2,AH3,pK1,pK2,pK3	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK2+pK1-2*x)}+AH3*10^{(pK3+pK2+pK1-3*x)})/(1+10^{(pK1-x)}+10^{(pK2+pK1-2*x)}+10^{(pK3+pK2+pK1-3*x)})$
4pKa	A,AH,AH2,AH3,AH4,pK1,pK2,pK3,pK4	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK2+pK1-2*x)}+AH3*10^{(pK3+pK2+pK1-3*x)}+AH4*10^{(pK4+pK3+pK2+pK1-4*x)})/(1+10^{(pK1-x)}+10^{(pK2+pK1-2*x)}+10^{(pK3+pK2+pK1-3*x)}+10^{(pK4+pK3+pK2+pK1-4*x)})$
3pKa_2equal	A, AH, AH2, AH3, pK1, pK23	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK23+pK1-2*x)}+AH3*10^{(2*pK23+pK1-3*x)})/(1+10^{(pK1-x)}+10^{(pK1+pK23-2*x)}+10^{(2*pK23+pK1-3*x)})$
3pKa_3equal	A,AH,AH2,AH3,pK13	x	y	$(A+AH*10^{(pK13-x)}+AH2*10^{(2*pK13-2*x)}+AH3*10^{(3*pK13-3*x)})/(1+10^{(pK13-x)}+10^{(2*pK13-2*x)}+10^{(3*pK13-3*x)})$
4pKa_3equal	A, AH, AH2, AH3, AH4, pK1, pK24	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK24+pK1-2*x)}+AH3*10^{(2*pK24+pK1-3*x)}+AH4*10^{(3*pK24+pK1-4*x)})/(1+10^{(pK1-x)}+10^{(pK24+pK1-2*x)}+10^{(2*pK24+pK1-3*x)}+10^{(3*pK24+pK1-4*x)})$
5pKa_1_1_3equal	A, AH, AH2, AH3, AH4, AH5, pK1, pK2, pK35	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK1+pK2-2*x)}+AH3*10^{(pK1+pK2+pK35-3*x)}+AH4*10^{(pK1+pK2+2*pK35-4*x)}+AH5*10^{(pK1+pK2+3*pK35-5*x)})/(1+10^{(pK1-x)}+10^{(pK1+pK2-2*x)}+10^{(pK1+pK2+pK35-3*x)}+10^{(pK1+pK2+2*pK35-4*x)}+10^{(pK1+pK2+3*pK35-5*x)})$
5pKa_3equal	A, AH, AH2, AH3, AH4, AH5, pK12, pK35	x	y	$(A+AH*10^{(pK12-x)}+AH2*10^{(2*pK12-2*x)}+AH3*10^{(2*pK12+pK35-3*x)}+AH4*10^{(2*pK12+2*pK35-4*x)}+AH5*10^{(2*pK12+3*pK35-5*x)})/(1+10^{(pK12-x)}+10^{(2*pK12-2*x)}+10^{(2*pK12+pK35-3*x)}+10^{(2*pK12+2*pK35-4*x)}+10^{(2*pK12+3*pK35-5*x)})$
5pKa_4equal	A, AH, AH2, AH3, AH4, AH5, pK1,	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK25+pK1-2*x)}+AH3*10^{(2*pK25+pK1-3*x)}+AH4*10^{(3*pK25+pK1-4*x)}+AH5*10^{(4*pK25+pK1-5*x)})/(1+10^{(pK1-x)}+10^{(pK25+pK1-2*x)}+10^{(2*pK25+pK1-3*x)}+10^{(3*pK25+pK1-4*x)}+10^{(4*pK25+pK1-5*x)})$

	pK25			$5*x)/(1+10^{(pK1-x)}+10^{(pK25+pK1-2*x)}+10^{(2*pK25+pK1-3*x)}+10^{(3*pK25+pK1-4*x)}+10^{(4*pK25+pK1-5*x)})$
6pKa_2_3equal	A, AH, AH2, AH3, AH4, AH5, AH6, pK1, pK23, pK46	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK23+pK1-2*x)}+AH3*10^{(2*pK23+pK1-3*x)}+AH4*10^{(pK46+2*pK23+pK1-4*x)}+AH5*10^{(2*pK46+2*pK23+pK1-5*x)}+AH6*10^{(3*pK46+2*pK23+pK1-6*x)})/(1+10^{(pK1-x)}+10^{(pK23+pK1-2*x)}+10^{(2*pK23+pK1-3*x)}+10^{(pK46+2*pK23+pK1-4*x)}+10^{(2*pK46+2*pK23+pK1-5*x)}+10^{(3*pK46+2*pK23+pK1-6*x)})$
6pKa_5equal	A, AH, AH2, AH3, AH4, AH5, AH6, pK1, pK26	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK26+pK1-2*x)}+AH3*10^{(2*pK26+pK1-3*x)}+AH4*10^{(3*pK26+pK1-4*x)}+AH5*10^{(4*pK26+pK1-5*x)}+AH6*10^{(5*pK26+pK1-6*x)})/(1+10^{(pK1-x)}+10^{(pK26+pK1-2*x)}+10^{(2*pK26+pK1-3*x)}+10^{(3*pK26+pK1-4*x)}+10^{(4*pK26+pK1-5*x)}+10^{(5*pK26+pK1-6*x)})$
7pKa_6equal	A, AH, AH2, AH3, AH4, AH5, AH6, AH7, pK1, pK27	x	y	$(A+AH*10^{(pK1-x)}+AH2*10^{(pK27+pK1-2*x)}+AH3*10^{(2*pK27+pK1-3*x)}+AH4*10^{(3*pK27+pK1-4*x)}+AH5*10^{(4*pK27+pK1-5*x)}+AH6*10^{(5*pK27+pK1-6*x)}+AH7*10^{(6*pK27+pK1-7*x)})/(1+10^{(pK1-x)}+10^{(pK27+pK1-2*x)}+10^{(2*pK27+pK1-3*x)}+10^{(3*pK27+pK1-4*x)}+10^{(4*pK27+pK1-5*x)}+10^{(5*pK27+pK1-6*x)}+10^{(6*pK27+pK1-7*x)})$
8pKa_2_3_3equal	A, AH, AH2, AH3, AH4, AH5, AH6, AH7, AH8, pK12, pK35, pK68	x	y	$(A+AH*10^{(pK12-x)}+AH2*10^{(2*pK12-2*x)}+AH3*10^{(2*pK12+pK35-3*x)}+AH4*10^{(2*pK12+2*pK35-4*x)}+AH5*10^{(2*pK12+3*pK35-5*x)}+AH6*10^{(2*pK12+3*pK35+pK68-6*x)}+AH7*10^{(2*pK12+3*pK35+2*pK68-7*x)}+AH8*10^{(2*pK12+3*pK35+3*pK68-8*x)})/(1+10^{(pK12-x)}+10^{(2*pK12-2*x)}+10^{(2*pK12+pK35-3*x)}+10^{(2*pK12+2*pK35-4*x)}+10^{(2*pK12+3*pK35-5*x)}+10^{(2*pK12+3*pK35+pK68-6*x)}+10^{(2*pK12+3*pK35+2*pK68-7*x)}+10^{(2*pK12+3*pK35+3*pK68-8*x)})$