

## Transitive Groups of Degree 13

No	Group	Order	2-Index	Molien Series
1	"C13=13"	13	$1 + t + 6t^2 + 22t^3 + 55t^4 + 99t^5 + 132t^6 + 132t^7 + 99t^8 + 55t^9 + 22t^{10} + 6t^{11} + t^{12} + t^{13}$	$1 + t + 7t^2 + 35t^3 + 140t^4 + 476t^5 + 1428t^6 + 3876t^7 + 9690t^8 + 22610t^9 + 49742t^{10}$
2	"D13=13:2"	26	$1 + t + 6t^2 + 14t^3 + 35t^4 + 57t^5 + 76t^6 + 76t^7 + 57t^8 + 35t^9 + 14t^{10} + 6t^{11} + t^{12} + t^{13}$	$1 + t + 7t^2 + 21t^3 + 84t^4 + 252t^5 + 756t^6 + 1980t^7 + 4950t^8 + 11410t^9 + 25102t^{10}$
3	"F_3913=13:3"	39	$1 + t + 2t^2 + 10t^3 + 21t^4 + 33t^5 + 48t^6 + 48t^7 + 33t^8 + 21t^9 + 10t^{10} + 2t^{11} + t^{12} + t^{13}$	$1 + t + 3t^2 + 15t^3 + 50t^4 + 162t^5 + 486t^6 + 1302t^7 + 3240t^8 + 7560t^9 + 16604t^{10}$
4	"F_5213=13:4"	52	$1 + t + 3t^2 + 7t^3 + 19t^4 + 30t^5 + 38t^6 + 38t^7 + 30t^8 + 19t^9 + 7t^{10} + 3t^{11} + t^{12} + t^{13}$	$1 + t + 4t^2 + 11t^3 + 44t^4 + 128t^5 + 380t^6 + 992t^7 + 2480t^8 + 5710t^9 + 12556t^{10}$

5	"F_7813=13:6"	78	$1 + t + 2t^2 + 6t^3 + 13t^4 + 19t^5 + 28t^6 + 28t^7 + 19t^8 + 13t^9 + 6t^{10} + 2t^{11} + t^{12} + t^{13}$	$1 + t + 3t^2 + 9t^3 + 30t^4 + 86t^5 + 258t^6 + 666t^7 + 1656t^8 + 3816t^9 + 8380t^{10}$
6	"F_15613=13:12"	156	$1 + t + t^2 + 3t^3 + 7t^4 + 10t^5 + 14t^6 + 14t^7 + 10t^8 + 7t^9 + 3t^{10} + t^{11} + t^{12} + t^{13}$	$1 + t + 2t^2 + 5t^3 + 16t^4 + 44t^5 + 130t^6 + 334t^7 + 830t^8 + 1910t^9 + 4192t^{10}$