Transitive Groups of Degree 4

No	Group	Order	2-Index	Molien Series
1	"C4 = 4"	4	$1 + t + 2t^2 + t^3 + t^4$	$1 + t + 3t^2 + 5t^3 + 10t^4 + 14t^5 + 22t^6 + 30t^7 + 43t^8 + 55t^9 + 73t^{10}$
2	"E4 = 2[x]2"	4	$1 + t + 3t^2 + t^3 + t^4$	$1 + t + 4t^2 + 5t^3 + 11t^4 + 14t^5 + 24t^6 + 30t^7 + 45t^8 + 55t^9 + 76t^{10}$
3	"D4"	8	$1 + t + 2t^2 + t^3 + t^4$	$1 + t + 3t^2 + 4t^3 + 8t^4 + 10t^5 + 16t^6 + 20t^7 + 29t^8 + 35t^9 + 47 t^{10}$
4	"A4"	12	$1 + t + t^2 + t^3 + t^4$	$1 + t + 2t^2 + 3t^3 + 5t^4 + 6t^5 + 10t^6 + 12t^7 + 17t^8 + 21t^9 + 28 t^{10}$
5	"S4"	24	$1 + t + t^2 + t^3 + t^4$	$1 + t + 2t^2 + 3t^3 + 5t^4 + 6t^5 + 9 t^6 + 11t^7 + 15t^8 + 18t^9 + 23 t^{10}$