

PAMAM Dendrimers from Aldrich

Dendrimers are defined by their three components: a central core, an interior dendritic structure (the branches), and an exterior surface (the end groups). Aldrich offers a compositionally diverse range of dendrimers. Those based on the polyamidoamine (PAMAM) core (Figure 1) are listed below, grouped by their different surface modifications. In addition, Aldrich offers two different families of phosphorus-based dendrimers (see facing page) and poly(propyleneimine)-based dendrimers.

If you would like to suggest novel building blocks (monomers) and initiator cores, critical to the development and advancement of new dendritic macromolecules, please bother us! Call our Technical Services department at (800) 231-8327 (USA) or your local office, or e-mail us at aldrich@sial.com.

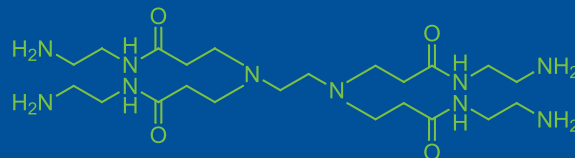


Figure 1

Generation	Aldrich Cat. No.*	Form	No. of Surface Groups	Unit Size	Unit Size
PAMAM Dendrimers with Primary Amino Surface Groups					
0.0	41,236-8	20 wt. % solution in methyl alcohol	4	5g	25g
1.0	41,238-4	20 wt. % solution in methyl alcohol	8	5g	25g
2.0	41,240-6	20 wt. % solution in methyl alcohol	16	5g	25g
3.0	41,242-2	20 wt. % solution in methyl alcohol	32	5g	25g
4.0	41,244-9	10 wt. % solution in methyl alcohol	64	2.5g	10g
5.0	53,670-9	5 wt. % solution in methyl alcohol	128	5g	
6.0	53,671-7	5 wt. % solution in methyl alcohol	256	5g	
7.0	53,672-5	5 wt. % solution in methyl alcohol	512	2.5g	
8.0	53,674-1	5 wt. % solution in methyl alcohol	1024	2.5g	
9.0	53,676-8	5 wt. % solution in methyl alcohol	2048	2g	
10.0	53,677-6	5 wt. % solution in methyl alcohol	4096	2g	
PAMAM Dendrimers with Carboxylate Surface Groups					
-0.5	52,614-2	Neat powder	4	1g	5g
0.5	41,237-6	20 wt. % solution in methyl alcohol	8	5g	25g
1.5	41,239-2	20 wt. % solution in methyl alcohol	16	1g	5g
2.5	41,241-4	10 wt. % solution in methyl alcohol	32	2.5g	10g
3.5	41,243-0	10 wt. % solution in methyl alcohol	64	2.5g	10g
4.5	47,045-7	5 wt. % solution in methyl alcohol	128	2.5g	10g
5.5	53,678-4	5 wt. % solution in methyl alcohol	256	5g	
6.5	53,679-2	5 wt. % solution in methyl alcohol	512	2.5g	
7.5	53,680-6	5 wt. % solution in methyl alcohol	1024	2.5g	
PAMAM Dendrimers with Hydroxyl Surface Groups					
2.0	47,783-4	20 wt. % solution in methyl alcohol	16	5mL	25mL
3.0	47,784-2	20 wt. % solution in methyl alcohol	32	5mL	25mL
4.0	47,785-0	10 wt. % solution in methyl alcohol	64	2.5g	10g
5.0	53,681-4	5 wt. % solution in methyl alcohol	128	5g	
6.0	53,682-2	5 wt. % solution in methyl alcohol	256	5g	
7.0	53,683-0	5 wt. % solution in methyl alcohol	512	2.5g	
PAMAM Dendrimers with 75% Primary Amino and 25% [N-(2-hydroxydodecyl)] Surface Groups					
2.0	53,684-9	20 wt. % solution in methyl alcohol	16	10g	
3.0	53,686-5	20 wt. % solution in methyl alcohol	32	10g	
4.0	53,696-2	10 wt. % solution in methyl alcohol	64	5g	
PAMAM Dendrimers with 50% Primary Amino and 50% [N-(2-hydroxydodecyl)] Surface Groups					
2.0	53,685-7	20 wt. % solution in methyl alcohol	16	10g	
3.0	53,687-3	20 wt. % solution in methyl alcohol	32	10g	
4.0	53,697-0	10 wt. % solution in methyl alcohol	64	5g	

*Manufactured by Dendritech, Inc.