



**Arch
Chemicals,
Inc.**

Performance Chemicals Typical Polyol Properties**

Arch produces a full line of *Poly-G®*, *Poly-L®*, and *Poly-Q®* polyether diols, triols and tetrols for use in flexible, rigid and non-foam urethane applications. In addition to the polyether polyols Arch also offers *Poly-A®* polyether amines for use in elastomeric coatings applications. The chart below describes the current list of polyol products available from Arch. The physical properties given below are typical and should not be taken as specifications.

Poly-G® Polyols	Molecular Weight Avg.	OH Number Avg. (mg KOH/g)	Acid Number Max. (mg KOH/g)	%Water Max.	PH Avg.*	Color Max (APHA)	Viscosity @ 25° C (cp)	Specific Gravity @ 25° C
Diols								
20-28	4000	28	0.05	0.02	6.0	45	925	1.001
20-37	3000	37	0.05	0.05	6.0	50	550	1.002
20-56	2000	56	0.05	0.01	6.0	20	325	1.001
20-112	1000	112	0.05	0.01	6.0	20	145	1.003
20-150	750	145	0.05	0.02	5.5	50	125	1.004
20-265	425	265	0.02	0.02	6.5	50	75	1.008
22-56	2000	56	0.05	0.05	6.0	50	500	1.099
26-150	770	146	0.05	0.02	6.0	25	125	1.004
55-28	4000	28	0.05	0.02	6.0	50	875	1.023
55-37	3000	37	0.05	0.02	6.5	50	600	1.036
55-53	2000	56	0.05	0.04	6.0	50	355	1.033
55-56	2000	56	0.03	0.02	6.0	50	370	1.058
55-112	1000	112	0.05	0.02	6.5	50	175	1.056
55-173	650	173	0.05	0.02	6.0	50	110	1.058
Triols								
30-28	6000	28	0.05	0.02	6.5	45	1130	1.005
30-33	5000	33	0.03	0.02	6.0	30	900	1.006
30-42	4000	40	0.03	0.03	5.5	35	700	1.004
30-56	3000	56	0.05	0.03	7.0	35	490	1.007
30-112	1500	112	0.05	0.03	6.0	30	275	1.015
30-168	1000	168	0.05	0.02	6.0	20	260	1.022
30-240	700	235	0.05	0.05	5.0	35	250	1.027
30-280	600	274	0.05	0.02	6.5	40	275	1.035
30-565	300	565	0.05	0.08	6.3	30	630	1.076
32-52	3200	52	0.02	0.04	7.0	40	550	1.0176
36-232	725	232	0.05	0.03	6.3	40	265	1.030
37-600	280	600		0.08	11	5G	380	1.051
76-120	1400	120	0.05	0.08	6.3	100	290	1.044
76-160	736	160	0.05	0.03	6.2	50	175	1.007
76-635	265	648	0.05	0.03	6.3	50	930	1.091
83-26	6500	26	0.04	0.02	6.0	50	1225	1.012
83-34	5000	34	0.04	0.06	6.5	50	1210	1.086
83-48	3500	48	0.04	0.03	6.0	50	875	1.105
83-170	1000	170	0.05	0.05	6.0	70	188	1.101
85-24	7000	24	0.05	0.03	7.5	50	1420	1.031
85-29	6000	28	0.05	0.03	6.2	50	1150	1.022
85-34	4500	35	0.02	0.03	7.4	50	875	1.025
85-36	4500	37	0.05	0.04	5.5	50	770	1.022
85-37	4500	37	0.03	0.04	6.5	40	800	1.027

*pH measured in IPA/Water solution at a 10/6 ratio.
**Not to be construed as product specification

G = Gardner

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Poly-G® Polyols	Molecular Weight Avg.	OH Number Avg. (mg KOH/g)	Acid Number Max. (mg KOH/g)	%Water Max.	PH Avg.*	Color Max. (APHA)	Viscosity @ 25° C (cp)	Specific Gravity @ 25° C
Chain Extenders & Cross Linkers								
30-400 T	420	400	0.05	0.05	5.5	50	613	1.033
35-610	275	610	0.05	0.03	6.8	50	650	1.114
540-378	600	378	0.05	0.05	5.5	30	1062	1.053
540-450	500	450	0.05	0.05	5.5	50	1750	1.064
540-555	400	555	0.05	0.05	5.5	50	2715	1.078
542-449	500	449	0.25	0.05	7.5	50	809	1.110
HQEE	198	555		0.14				1.151
Urethane Grade PEGs								
21-77	1400	77	0.05	0.05	6.0	(25% solution) 30	18 (cst @ 99°C)	1.1143 @ 50C/50C
21-112	1000	112	0.05	0.05	5.5	(25% solution) 30	18 (cst @ 99°C)	1.1278
Poly-L® Polyols								
220-28	4000	28	0.02	0.02	6.0	50	1000	1.003
220-56	2000	56	0.05	0.02	6.0	50	350	1.003
255-28	4000	28	0.05	0.02	6.0	70	1600	1.025
330-26	6400	26	0.04	0.03	5.4	50	1400	
Polymer Polyols								
92-27		28	0.06	0.05	7.5		5500	
98-31		31	0.06	0.05	7.5		1700	
Poly-Q® Polyols								
40-56	4000	56		0.05	10.0	100	658	1.005
40-770	292	745		0.05	11.0	70	50,000	1.032
40-480	468	480		0.05	11	70	4,000	1.025
40-800	278	775		0.05	11.0	70	17,000	1.055
43-455	493	455		0.05	11	80	2,100	1.036
Rigids								
70-600		600		0.1	11.0	18G	265	1.129
71-357		350		0.08	10.5	12G	2400	1.075
71-360		360		0.1	9.0	12G	2750	1.084
71-530		530		0.08	11.0	12G	13500	1.114
72-465		470		0.06	10.8	8G	9250	1.045
73-490		490		0.1	8.3	6G	9500	1.092
74-376		365		0.1	6.3	7G	2750	1.087
74-292		292		0.1	11.5	16G	700	1.115
74-444		440		0.03	6.8	12G	5000	1.106
74-532		525		0.08	6.3	8G	30000	1.138
Poly-A® Polyols Amine-Terminated								
	Molecular Weight Avg.	Total Amine meq/g		%Water Max.	PH Avg.*	Color Max. (APHA)	Viscosity @ 25° C (cp)	Specific Gravity @ 25° C
27- 400	400	4.4		0.25	11.7	50	27	0.975
27-2000	2000	1.00		0.1	10.8	100	250	1.000
37-5000	5000	0.56		0.1		50	785	1.002

*pH measured in IPA/Water solution at a 10/6 ratio.

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For More Information Technical Service

Technical Service is available to facilitate further use of Arch urethane chemicals. If you have a specific question or need further information, please write or call Urethane Technical Service, Arch Chemicals Plant, P.O. Box 547, 2450 Highway 933, Brandenburg, KY 40108-0547, (800) 370-9674.

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Written inquires may be sent to:

Arch Chemicals, Inc.
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Norwalk, CT 06856
Attention: Sales Director Performance Urethanes

Please refer to the Material Safety Data Sheet (MSDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an MSDS, call the Arch sales office listed below or the MSDS Control Group at (800) 511-MSDS. Before using or handling this product, the MSDS should be thoroughly reviewed.

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