

**Kuraray's unique Diols and Polyols**

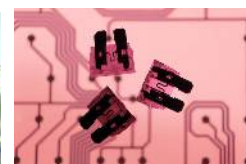
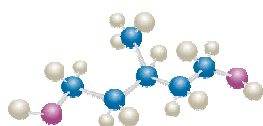
Product List

Properties

<Diols>	CAS Nr.	Composition	M.W.	Functional Number	Appearance at 25°C
MPD (3-Methyl-1,5-Pentanediol)	4457-71-0	(monomer)	118	2	Liquid
ND (1,9-Nonanediol)	3937-56-2	(monomer)	160	2	White solid

<Polyols>	CAS Nr.	Composition	M.W.	Functional Number	Appearance at 25°C
<b>-Polyester Polyols-</b>					
Kuraray Polyol P-510	39751-34-3	MPD adipate	500	2	Liquid
Kuraray Polyol P-1010	39751-34-3	MPD adipate	1000	2	Liquid
Kuraray Polyol P-2010	39751-34-3	MPD adipate	2000	2	Liquid
Kuraray Polyol P-3010	39751-34-3	MPD adipate	3000	2	Liquid
Kuraray Polyol P-4010	39751-34-3	MPD adipate	4000	2	Liquid
Kuraray Polyol P-5010	39751-34-3	MPD adipate	5000	2	Liquid
Kuraray Polyol P-6010	39751-34-3	MPD adipate	6000	2	Liquid
Kuraray Polyol F-510	122310-07-0	[MPD/TMP] adipate	500	3	Liquid
Kuraray Polyol F-1010	122310-07-0	[MPD/TMP] adipate	1000	3	Liquid
Kuraray Polyol F-2010	122310-07-0	[MPD/TMP] adipate	2000	3	Liquid
Kuraray Polyol F-3010	122310-07-0	[MPD/TMP] adipate	3000	3	Liquid
Kuraray Polyol P-2011	160935-30-8	MPD [adipate/terephthalate=5/5]	2000	2	Liquid
Kuraray Polyol P-520	162005-47-2	MPD terephthalate	500	2	Paste
Kuraray Polyol P-1020	162005-47-2	MPD terephthalate	1000	2	Wax
Kuraray Polyol P-2020 *	162005-47-2	MPD terephthalate	2000	2	Wax
Kuraray Polyol P-1012	156638-20-9	MPD [adipate/isophthalate=5/5]	1000	2	Liquid
Kuraray Polyol P-2012	156638-20-9	MPD [adipate/isophthalate=5/5]	2000	2	Liquid
Kuraray Polyol P-530	76962-70-4	MPD isophthalate	500	2	Liquid
Kuraray Polyol P-2030 *	76962-70-4	MPD isophthalate	2000	2	Liquid
Kuraray Polyol P-2050 *	26009-52-9	MPD sebacate	2000	2	Liquid
Kuraray Polyol N-2010	73019-30-4	ND adipate	2000	2	Wax
Kuraray Polyol PMNA-2016	142251-93-2	[MPD /ND] adipate	2000	2	Wax
<b>-Polycarbonate Polyols-</b>					
Kuraray Polyol C-590	140936-35-2	Carbonate polyol [MPD/1,6-HD=9/1]	500	2	Liquid
Kuraray Polyol C-1090	140936-35-2	Carbonate polyol [MPD/1,6-HD=9/1]	1000	2	Liquid
Kuraray Polyol C-2090	140936-35-2	Carbonate polyol [MPD/1,6-HD=9/1]	2000	2	Liquid
Kuraray Polyol C-3090	140936-35-2	Carbonate polyol [MPD/1,6-HD=9/1]	3000	2	Liquid

Note: \* limited availability



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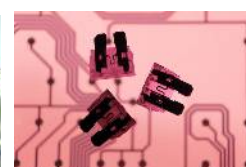
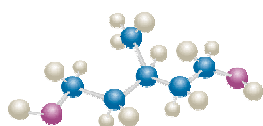
Product List

Specifications

<Diols>	Purity [%]	Color [APHA]	Water [wt %]
MPD (3-Methyl-1,5-Pentanediol)	≥98.0	≤20	≤0.1
ND (1,9-Nonanediol)	>98.0	<30	<0.05

<Kuraray Polyols>	Color [APHA]	Acid Value [mg KOH / g]	Water [wt %]	OH Value [mg KOH / g]
-Polyester polyols-				
Kuraray Polyol P-510	≤100	≤0.5	≤0.05	213.0 - 235.0
Kuraray Polyol P-1010	≤100	≤0.5	≤0.05	106.0 - 118.0
Kuraray Polyol P-2010	≤100	≤0.5	≤0.05	53.0 - 59.0
Kuraray Polyol P-3010	≤100	≤0.5	≤0.05	35.0 - 40.0
Kuraray Polyol P-4010	≤100	≤0.5	≤0.05	26.5 - 29.5
Kuraray Polyol P-5010	≤100	≤0.5	≤0.05	21.0 - 24.0
Kuraray Polyol P-6010	≤100	≤0.5	≤0.05	17.8 - 19.8
Kuraray Polyol F-510	≤100	≤1.0	≤0.05	319.5 - 352.5
Kuraray Polyol F-1010	≤100	≤1.0	≤0.05	159.0 - 176.0
Kuraray Polyol F-2010	≤100	≤0.8	≤0.05	80.0 - 88.0
Kuraray Polyol F-3010	≤100	≤1.0	≤0.05	53.0 - 59.0
Kuraray Polyol P-2011	≤100	≤1.0	≤0.05	53.0 - 59.0
Kuraray Polyol P-520	≤150	≤1.0	≤0.05	213.0 - 235.0
Kuraray Polyol P-1020	≤150	≤1.0	≤0.05	106.0 - 118.0
Kuraray Polyol P-2020 *	≤150	≤1.0	≤0.05	53.0 - 59.0
Kuraray Polyol P-1012	≤150	≤0.5	≤0.05	106.0 - 118.0
Kuraray Polyol P-2012	≤150	≤1.0	≤0.05	53.0 - 59.0
Kuraray Polyol P-530	≤150	≤1.0	≤0.05	213.0 - 235.0
Kuraray Polyol P-2030 *	≤150	≤0.5	≤0.05	53.0 - 59.0
Kuraray Polyol P-2050 *	≤100	≤0.5	≤0.05	53.0 - 59.0
Kuraray Polyol N-2010	≤100	≤0.5	≤0.05	53.0 - 59.0
Kuraray Polyol PMNA-2016	≤100	≤0.3	≤0.03	53.0 - 59.0
-Polycarbonate polyols-				
Kuraray Polyol C-590	≤100	≤0.5	≤0.07	212.0 - 236.0
Kuraray Polyol C-1090	≤100	≤0.5	≤0.05	106.0 - 118.0
Kuraray Polyol C-2090	≤100	≤0.5	≤0.05	53.0 - 59.0
Kuraray Polyol C-3090	≤100	≤0.5	≤0.05	34.4 - 40.4

Note: \* limited availability



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Product List

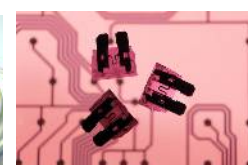
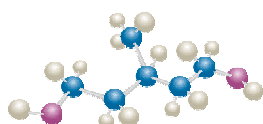
## Registration

<Diols>	CAS	TSCA	EINECS	REACH	ENCS	ECL	IECSC	Tariff code
		US	EU	EU	JP	KR	CN	
MPD (3-Methyl-1,5-pentanediol)	4457-71-0	on list	224-709-1	Registered	2-240	KE-24698	on list	2905 39
ND (1,9-Nonanediol)	3937-56-2	on list	223-517-5	pre-registered as an importer	2-240	KE-26155	on list	2905 39

<Polyols>	CAS	TSCA	EINECS	REACH	ENCS	ECL	IECSC	Tariff code
		US	EU	EU	JP	KR	CN	
-Polyester polyols-								
Kuraray Polyol P-510	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol P-1010	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol P-2010	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol P-3010	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol P-4010	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol P-5010	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol P-6010	39751-34-3	on	polymer	polymer**	7-708	KE-28951	on	3907 99
Kuraray Polyol F-510	122310-07-0	on	polymer	polymer**	7-708	On	on	3907 99
Kuraray Polyol F-1010	122310-07-0	on	polymer	polymer**	7-708	On	on	3907 99
Kuraray Polyol F-2010	122310-07-0	on	polymer	polymer**	7-708	On	on	3907 99
Kuraray Polyol F-3010	122310-07-0	on	polymer	polymer**	7-708	On	on	3907 99
Kuraray Polyol P-2011	160935-30-8	on	polymer	polymer**	7-802	KE-28952	on	3907 91
Kuraray Polyol P-520	162005-47-2	on	polymer	polymer**	7-792	-	on	3907 91
Kuraray Polyol P-1020	162005-47-2	on	polymer	polymer**	7-792	-	on	3907 91
Kuraray Polyol P-2020 *	162005-47-2	on	polymer	polymer**	7-792	-	on	3907 91
Kuraray Polyol P-1012	156638-20-9	on	polymer	polymer**	7-802	-	on	3907 91
Kuraray Polyol P-2012	156638-20-9	on	polymer	polymer**	7-802	-	on	3907 91
Kuraray Polyol P-530	76962-70-4	-	polymer	polymer**	7-792	-	on	3907 91
Kuraray Polyol P-2030 *	76962-70-4	-	polymer	polymer**	7-792	-	on	3907 91
Kuraray Polyol P-2050 *	26009-52-9	-	polymer	polymer**	7-708	-	on	3907 99
Kuraray Polyol N-2010	73019-30-4	-	polymer	polymer**	7-708	2002-3-2103	on	3907 99
Kuraray Polyol PMNA-2016	142251-93-2	-	polymer	polymer**	7-708	-	-	3907 99
-polycarbonate polyols-								
Kuraray Polyol C-590	140936-35-2	on	polymer	polymer**	7-2469	2001-3-1903	on	3907 40
Kuraray Polyol C-1090	140936-35-2	on	polymer	polymer**	7-2469	2001-3-1903	on	3907 40
Kuraray Polyol C-2090	140936-35-2	on	polymer	polymer**	7-2469	2001-3-1903	on	3907 40
Kuraray Polyol C-3090	140936-35-2	on	polymer	polymer**	7-2469	2001-3-1903	on	3907 40

Note: \* limited availability

\*\* All monomers are registered/pre-registered in REACH.



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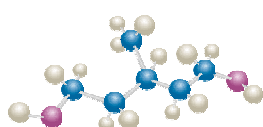
Product List

## Package, Transportation

<Diols>	Package			Flash point	UN Nr.
	Drum	Can	ISO		
MPD (3-Methyl-1,5-pentanediol)	190kg (418.9 lbs)	17kg (37.5 lbs) *	22t	143°C (289°F)	N.A.
ND (1,9-Nonanediol)	175kg (385.8 lbs)	15kg (33.1 lbs) *	-	162°C (323°F)	N.A.

<Polyols>	Package			Flash point	UN Nr.
	Drum	Can	ISO		
-Polyester polyols-					
Kuraray Polyol P-510	215kg (474.0 lbs)	18kg (39.7 lbs) *	19t	218°C (424°F)	N.A.
Kuraray Polyol P-1010	215kg (474.0 lbs)	18kg (39.7 lbs) *	19t	220°C (428°F)	N.A.
Kuraray Polyol P-2010	215kg (474.0 lbs)	18kg (39.7 lbs) *	19t	262°C (503°F)	N.A.
Kuraray Polyol P-3010	215kg (474.0 lbs)	18kg (39.7 lbs) *	(19t)	298°C (568°F)	N.A.
Kuraray Polyol P-4010	215kg (474.0 lbs)	18kg (39.7 lbs) *	(19t)	300°C (572°F)	N.A.
Kuraray Polyol P-5010	215kg (474.0 lbs)	18kg (39.7 lbs) *	(19t)	>300°C (>572°F)	N.A.
Kuraray Polyol P-6010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	302°C (576°F)	N.A.
Kuraray Polyol F-510	200kg (440.9 lbs)	18kg (39.7 lbs) *	-	197°C (387°F)	N.A.
Kuraray Polyol F-1010	200kg (440.9 lbs)	18kg (39.7 lbs) *	-	218°C (424°F)	N.A.
Kuraray Polyol F-2010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	252°C (485°F)	N.A.
Kuraray Polyol F-3010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	>300°C (>572°F)	N.A.
Kuraray Polyol P-2011	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	279°C (534°F)	N.A.
Kuraray Polyol P-520	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	166°C (330°F)	N.A.
Kuraray Polyol P-1020	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	217°C (422°F)	N.A.
Kuraray Polyol P-2020 *	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	291°C (555°F)	N.A.
Kuraray Polyol P-1012	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	281°C (537°F)	N.A.
Kuraray Polyol P-2012	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	277°C (531°F)	N.A.
Kuraray Polyol P-530	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	170°C (338°F)	N.A.
Kuraray Polyol P-2030 *	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	292°C (558°F)	N.A.
Kuraray Polyol P-2050 *	210kg (463.0 lbs)	18kg (39.7 lbs) *	-	277°C (531°F)	N.A.
Kuraray Polyol N-2010	200kg (440.9 lbs)	18kg (39.7 lbs) *	-	276°C (529°F)	N.A.
Kuraray Polyol PMNA-2016	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	259°C (498°F)	N.A.
-Polycarbonate polyols-					
Kuraray Polyol C-590	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	172°C (341°F)	N.A.
Kuraray Polyol C-1090	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	203°C (397°F)	N.A.
Kuraray Polyol C-2090	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	275°C (527°F)	N.A.
Kuraray Polyol C-3090	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	270°C (518°F)	N.A.

Note: \* limited availability



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