

## Diols, Kuraray Polyols

Technical Data Sheet

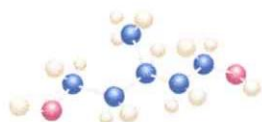
### Fundamental Properties

<Diols>

	Purity [%]	Color [APHA]	Water [wt %]
MPD	>98.0	<20	<0.1
ND	>98.0	<30	<0.05

<Kuraray Polyols>

	Color(APHA) [APHA]	Acid Value [mg KOH / g]	Water [wt %]	OH Value [mg KOH / g]
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-1011	<100	<1.0	<0.05	106.0 - 118.0
Kuraray Polyol P-2011	<100	<1.0	<0.05	53.0 - 59.0
Kuraray Polyol P-2013	<150	<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-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	<0.5	<0.05	53.0 - 59.0
Kuraray Polyol C-590	<100	<0.5	<0.07	212.0 - 236.0
Kuraray Polyol C-1050	<100	<0.5	<0.05	106.0 - 118.0
Kuraray Polyol C-1090	<100	<0.5	<0.05	106.0 - 118.0
Kuraray Polyol C-2050	<100	<0.5	<0.05	53.0 - 59.0
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



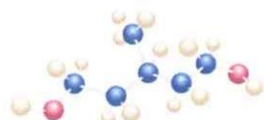
## Specifications

### <Diols>

	CAS Nr.	Composition	Molecular weight	Functional Number	Physical State
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

### <Kuraray Polyols>

	CAS Nr.	Composition	Molecular weight	Functional Number	Physical State
<b>&lt;Polyester Polyols&gt;</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-1011	160935-30-8	MPD [adipate / terephthalate=5/5]	1000	2	Liquid
Kuraray Polyol P-2011	160935-30-8	MPD [adipate / terephthalate=5/5]	2000	2	Liquid
Kuraray Polyol P-2013	160935-30-8	MPD [adipate / terephthalate=9/1]	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	Paste
Kuraray Polyol P-2020	162005-47-2	MPD terephthalate	2000	2	Paste
Kuraray Polyol P-1012	158638-20-9	MPD [adipate / isophthalate=5/5]	1000	2	Liquid
Kuraray Polyol P-2012	158638-20-9	MPD [adipate / isophthalate=5/5]	2000	2	Liquid
Kuraray Polyol P-2030	76962-70-4	MPD isophthalate	2000	2	Paste
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>&lt;Polycarbonate Polyols&gt;</b>					
Kuraray Polyol C-590	140936-35-2	Carbonate polyol [MPD / 1,6-HD=9/1]	500	2	Liquid
Kuraray Polyol C-1050	140936-35-2	Carbonate polyol [MPD / 1,6-HD=5/5]	1000	2	Liquid
Kuraray Polyol C-1090	140936-35-2	Carbonate polyol [MPD / 1,6-HD=9/1]	1000	2	Liquid
Kuraray Polyol C-2050	140936-35-2	Carbonate polyol [MPD / 1,6-HD=5/5]	2000	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



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### Registrations

<Diols>

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

<Kuraray Polyols>

	CAS	TSCA US	EINECS EU	REACH EU	ENCS JP	ECL KR	IECSC CN	Tariff code
Kuraray Polyol P-510	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol P-1010	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol P-2010	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol P-3010	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol P-4010	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol P-5010	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol P-6010	39751-34-3	on list	polymer	(polymer)	7-784	KE-28951	on list	3907 99
Kuraray Polyol F-510	122310-07-0	on list	polymer	(polymer)	7-784	-	on list	3907 99
Kuraray Polyol F-1010	122310-07-0	on list	polymer	(polymer)	7-784	-	on list	3907 99
Kuraray Polyol F-2010	122310-07-0	on list	polymer	(polymer)	7-784	-	on list	3907 99
Kuraray Polyol F-3010	122310-07-0	on list	polymer	(polymer)	7-784	-	on list	3907 99
Kuraray Polyol P-1011	160935-30-8	on list	polymer	(polymer)	7-802	KE-28952	on list	3907 99
Kuraray Polyol P-2011	160935-30-8	on list	polymer	(polymer)	7-802	KE-28952	on list	3907 99
Kuraray Polyol P-2013	160935-30-8	on list	polymer	(polymer)	7-802	KE-28952	on list	3907 99
Kuraray Polyol P-520	162005-47-2	on list	polymer	(polymer)	7-792	-	on list	3907 99
Kuraray Polyol P-1020	162005-47-2	on list	polymer	(polymer)	7-792	-	on list	3907 99
Kuraray Polyol P-2020	162005-47-2	on list	polymer	(polymer)	7-792	-	on list	3907 99
Kuraray Polyol P-1012	156638-20-9	on list	polymer	(polymer)	7-802	-	on list	3907 99
Kuraray Polyol P-2012	156638-20-9	on list	polymer	(polymer)	7-802	-	on list	3907 99
Kuraray Polyol P-2030	76962-70-4	-	polymer	(polymer)	7-792	-	on list	3907 99
Kuraray Polyol P-2050	26009-52-9	-	polymer	(polymer)	7-784	-	on list	3907 99
Kuraray Polyol N-2010	73019-30-4	-	polymer	(polymer)	7-708	2002-3-2103	on list	3907 99
Kuraray Polyol PMNA-2016	142251-93-2	-	polymer	(polymer)	7-784	-	-	3907 99
Kuraray Polyol C-590	140936-35-2	on list	polymer	(polymer)	7-2469	2001-3-1903	on list	3907 40
Kuraray Polyol C-1050	140936-35-2	on list	polymer	(polymer)	7-2469	2001-3-1903	on list	3907 40
Kuraray Polyol C-1090	140936-35-2	on list	polymer	(polymer)	7-2469	2001-3-1903	on list	3907 40
Kuraray Polyol C-2050	140936-35-2	on list	polymer	(polymer)	7-2469	2001-3-1903	on list	3907 40
Kuraray Polyol C-2090	140936-35-2	on list	polymer	(polymer)	7-2469	2001-3-1903	on list	3907 40
Kuraray Polyol C-3090	140936-35-2	on list	polymer	(polymer)	7-2469	2001-3-1903	on list	3907 40



## Diols, Kuraray Polyols

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### Package, Transportation

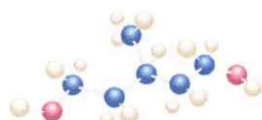
<Diols>

	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)	-
ND (1,9-Nonanediol)	175kg (385.8 lbs)	15kg (33.1 lbs) *	-	162°C (323°F)	-

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	Package			Flash point	UN Nr.
	Drum	Can	ISO		
Kuraray Polyol P-510	215kg (474.0 lbs)	18kg (39.7 lbs) *	19t	218°C (424°F)	-
Kuraray Polyol P-1010	215kg (474.0 lbs)	18kg (39.7 lbs) *	19t	220°C (428°F)	-
Kuraray Polyol P-2010	215kg (474.0 lbs)	18kg (39.7 lbs) *	19t	262°C (503°F)	-
Kuraray Polyol P-3010	215kg (474.0 lbs)	18kg (39.7 lbs) *	(19t)	298°C (568°F)	-
Kuraray Polyol P-4010	215kg (474.0 lbs)	18kg (39.7 lbs) *	(19t)	300°C (572°F)	-
Kuraray Polyol P-5010	215kg (474.0 lbs)	18kg (39.7 lbs) *	(19t)	>300°C (>572°F)	-
Kuraray Polyol P-6010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	302°C (576°F)	-
Kuraray Polyol F-510	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	197°C (387°F)	-
Kuraray Polyol F-1010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	218°C (424°F)	-
Kuraray Polyol F-2010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	252°C (485°F)	-
Kuraray Polyol F-3010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	>300°C (>572°F)	-
Kuraray Polyol P-1011	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	218°C (424°F)	-
Kuraray Polyol P-2011	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	279°C (534°F)	-
Kuraray Polyol P-2013	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	281°C (538°F)	-
Kuraray Polyol P-520	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	166°C (330°F)	-
Kuraray Polyol P-1020	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	217°C (422°F)	-
Kuraray Polyol P-2020	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	291°C (555°F)	-
Kuraray Polyol P-1012	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	281°C (537°F)	-
Kuraray Polyol P-2012	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	277°C (531°F)	-
Kuraray Polyol P-2030	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	292°C (558°F)	-
Kuraray Polyol P-2050	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	277°C (531°F)	-
Kuraray Polyol N-2010	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	276°C (529°F)	-
Kuraray Polyol PMNA-2016	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	259°C (498°F)	-
Kuraray Polyol C-590	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	172°C (341°F)	-
Kuraray Polyol C-1050	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	227°C (440°F)	-
Kuraray Polyol C-1090	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	203°C (397°F)	-
Kuraray Polyol C-2050	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	271°C (519°F)	-
Kuraray Polyol C-2090	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	275°C (527°F)	-
Kuraray Polyol C-3090	215kg (474.0 lbs)	18kg (39.7 lbs) *	-	270°C (518°F)	-

--Note-- \* : limited availability





All monomers are pre-registered in REACH by Kuraray Europe GmbH as an importer.

Chemicals Marketing & Sales Dept. Isoprene Chemicals Div.

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