



***INDUSTRIAL
& SPECIALTY
MONOMERS***

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MITSUBISHI RAYON'S METHACRYLIC MONOMERS

NON-FUNCTIONAL MONOMERS

		Typ.Purity (%)	Viscosity (mPa-s)	Tg
METHYL METHACRYLATE	MMA	99.9	0.56	105
ETHYL METHACRYLATE	EMA	99.7	0.62	65
n-BUTYL METHACRYLATE	n-BMA	99.8	0.92	20
ISOBUTYL METHACRYLATE	IBMA	99.5	0.88	48
tert-BUTYL METHACRYLATE	t-BMA	99.7	0.93	107
2-ETHYLHEXYL METHACRYLATE	EHMA	99.5	1.85	-10
LAURYL (C12) METHACRYLATE	LMA	99.5	4.60	-65
TRIDECYL (C13) METHACRYLATE	TDMA	98.7	5.81	-46
STEARYL (C18) METHACRYLATE	SMA	99.6	8.21*	-100
CYCLOHEXYL METHACRYLATE	CHMA	99.7	2.50	83
BENZYL METHACRYLATE	BZMA	98.8	2.68	54
ISOBORNYL METHACRYLATE	IBXMA	99.6	7.40	> 111°C

FUNCTIONAL MONOMERS

		Typ.Purity (%)	Viscosity (mPa-s)	Tg
METHACRYLIC ACID	MAA	99.9	1.35	228
2-HYDROXYETHYL METHACRYLATE	HEMA	97.6	6.79	55
2-HYDROXYPROPYL METHACRYLATE	HPMA	97.0	9.28	26
DIMETHYLAMINOETHYL METHACRYLATE	DMMA	99.0	1.34	18
DIETHYLAMINOETHYL METHACRYLATE	DEMA	99.8	1.80	20
GLYCIDYL METHACRYLATE	GMA	98.0	2.53	46
TETRAHYDROFURFURYL METHACRYLATE	THFMA	98.9	2.84	60
ALLYL METHACRYLATE	AMA	99.9	1.09	52
ETHYLENEGLYCOL DIMETHACRYLATE	EDMA	98.6	3.20	---
TRIETHYLENEGLYCOL DIMETHACRYLATE	3EDMA	99.5	10.2	---
TETRAETHYLENEGLYCOL DIMETHACRYLATE	4EDMA	99.0	18.18	---
1,3-BUTYLENEGLYCOL DIMETHACRYLATE	BDMA	97.7	4.40	---
1,6-HEXANEDIOL DIMETHACRYLATE	HXMA	97.0	4	---
TRIMETHYLOLPROPANE TRIMETHACRYLATE	TMPMA	96.9	57.0	---
ETHOXYETHYL METHACRYLATE	ETMA	98.0	3.5	-31
TRIFLUOROETHYL METHACRYLATE	3FM	98.0	1.0	80
OCTAFLUOROPENTYL METHACRYLATE (LVE)	8FM	98%	4	---
O-HEXAHYDROPHthalic ACID, MONO METHACRYLOXY ETHYL ESTER	HH	97%	---	---
METHYLENE-bis-ACRYLAMIDE	MBAA	97%	---	---
tert-BUTYL ACRYLAMIDE	TBAA	97%	---	---
N-(n-BUTOXYMETHYL) ACRYLAMIDE	MBAA	98%	---	---

(All Products are Listed on TSCA Inventory, LVE Indicates Low Volume exemption only)

* at 30°C

OSAKA ORGANIC'S SPECIALTY MONOMERS

NON-FUNCTIONAL MONOMERS

		Viscosity (mPa-s)	Tg (°C)	Draize Irritation Index
ISOBUTYL ACRYLATE	AIB	1.4	-24	---
tert-BUTYL ACRYLATE	TBA	1.3	41	---
LAURYL (C12) ACRYLATE	LA	4.0	15	3.0
CETYL (C16) ACRYLATE	CEA	7.6	35	5.9
STEARYL (C18) ACRYLATE	STA	8-10*	---	---
CYCLOHEXYL ACRYLATE	(#155)	3.0	15	---
BENZYL ACRYLATE	(#160)	8.0	6	---
ISOBORNYL ACRYLATE	IBXA	7.7	94	0.6

FUNCTIONAL MONOMERS

		Viscosity (mPa-s)	Tg (°C)	Draize Irritation Index
2-METHOXYETHYL ACRYLATE	2-MTA	1.4	-50	3.3
2-ETHOXYETHYL ACRYLATE	ETA	1.4	-50	---
ETHOXYETHOXYETHYL ACRYLATE	(#190)	2.9	-67	4.9
2-PHENOXYETHYL ACRYLATE	(#192)	3.3	-22	1.7
TETRAHYDROFURFURYL ACRYLATE	THFA	2.8	-12	5.0
2-HYDROXYETHYL ACRYLATE	HEA	5.9	-15	7.2
2-HYDROXYPROPYL ACRYLATE	HPA	4.1	-7	6.1
4-HYDROXYBUTYL ACRYLATE	4HBA	5.5	-32	3.0
DIMETHYLAMINOETHYL ACRYLATE	DMA	1.3	---	---
1,4-BUTANEDIOL DIACRYLATE	(#195)	5.0	---	8.0
TETRAETHYLENE GLYCOL DIACRYLATE	(#355 HP)	18	---	2.3
1,9-NONANEDIOL DIACRYLATE (LVE)	(260)	21	---	2.0
METHOXPOLYETHYLENE GLYCOL ACRYLATE		25	---	---
POLYBUTADIENE DIACRYLATE	BAC-45	6,000		
POLYBUTADIENE DIACRYLATE	BAC-15	2,000		
PHTHALIC ACID, MONO ACRYLOXY ETHYL ESTER	V-2000	---	---	---
PHTHALIC ACID, MONO ACRYLOXY PROPYL ESTER (LVE)	V-2100	---	---	---
PENTAERYTHRITOL TRIACRYLATE	(#300)	500		3.4
PENTAERYTHRITOL TETRAACRYLATE	(#400)	---	---	2.8
TRIFLUOROETHYL ACRYLATE	(3F)	1.1	-10	---
HEPTADEC AFLUORODECYL ACRYLATE	(17F)	12.0	---	
2-ACRYLOYLETHYL-2-HYDROXYETHYL-o-PHTHALATE	(#2308)	600-2000	10	---

(All Products are Listed on TSCA Inventory, LVE Indicates Low Volume exemption only)

* at 30°C

SAN ESTERS CORPORATION (SEC)



SEC is a leading supplier of Methacrylate and specialty Acrylate Monomers produced by its parent companies, Mitsubishi Rayon Company and Osaka Organic Chemical Industries. The wide variety of Monomers available provides paint & resin manufacturers with new opportunities for developing environmentally compliant coatings with significantly improved properties. SEC welcomes inquiries on custom manufacturing and special purity requirements.

MITSUBISHI RAYON COMPANY, LTD. (MRC)



MRC, founded in 1933, is one of the world's largest producers of High Purity Methacrylic Monomers. Its products range from the large commodity Methacrylates like MMA to highly specialized products such as the fluorinated Monomers.

MRC has pioneered the development of highly reactive and crosslinkable Monomers such as Glycidyl Methacrylate, Allyl Methacrylate, and Ethylene Glycol Dimethacrylate.

MRC specializes in offering high Tg, Low Color Methacrylates such as Isobornyl (IBXMA), Cyclohexyl (CHMA), and tert-Butyl Methacrylates (TBMA), without using color forming Phenothiazine (PTZ) inhibitors. MRC has developed a very low acidity and less color for its Hydroxy Monomers: Hydroxyethyl Methacrylate (HEMA) and Hydroxypropyl Methacrylate (HPMA).

A separate Division, MRC Unitec offers a number of specialty derivatives of Acrylamide and Methacrylamide. Also being developed is a new line of Cationic Monomers based on Methacrylic and Methacrylamide functionalities.

OSAKA ORGANIC CHEMICAL INDUSTRIES, LTD. (OOC)



Osaka Organic offers over 50 Alkyl and multi-functional Acrylates that are used both in conventional and radiation curable coatings. Osaka Organic has the unique ability to respond quickly to customer requirements for special products and purities.

OOC's key advantage is in offering Low Color (+PTZ Free) high purity (97% min) diluent monomers such as Isobornyl, Ethoxyethoxy Ethyl, Tetrahydrofurfuryl, and Phenoxyethyl Acrylates.

4-Hydroxybutyl Acrylate is a low Tg, high flexible Hydroxy Monomer for conventional resins or UV cured products with a Low Diester content (.5%)

Newest product line is Polybutadiene Diacrylate Oligomers (BAC-15 & 45) with Low Color, Low Viscosity, and Higher Purity for Elastomeric and Hydrophobic Coatings.