Acrylic & Methacrylic Monomers

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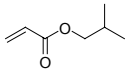
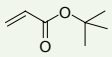
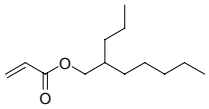
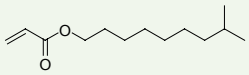
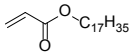
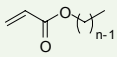
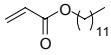
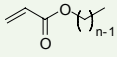
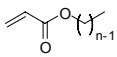
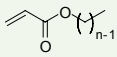
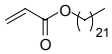
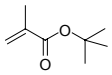
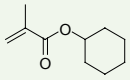
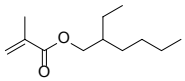
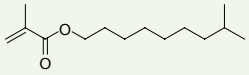
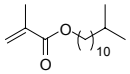
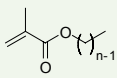
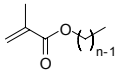
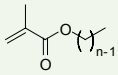
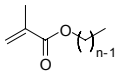
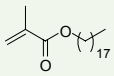
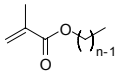
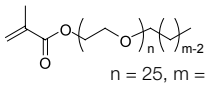
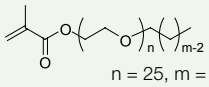
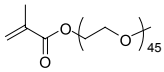
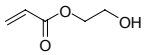
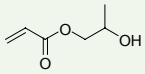
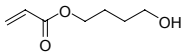
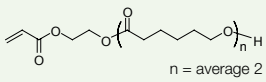
Product [CAS no.]	C^{14} BIO-based content	Chemical Structure	Polymer Tg [°C]	Bp [°C]	**Coatings** (Automotive / Industrial)	**Emulsions** (Coatings / Adhesives)	**Adhesives & Sealants**	**Paper**	**Leather / Textile**	**Oilfield**	**Lubricants**	**Construction**	**Rubber / Plastics**	**Rad / UV Cure**
Alkyl Acrylates														
iso-Butyl Acrylate (IBA) [106-63-8]			-24	138	x	x	x	x	x			x	x	
tert-Butyl Acrylate (TBA) [1663-39-4]			50	119	x	x	x	x	x			x	x	
2-Propylheptyl Acrylate (2-PHA) [149021-58-9]			-67	250	x	x	x						x	x
iso-Decyl Acrylate F (IDA F) [1330-61-6]			-58	158 (66 mbar)	x	x	x							x
Heptadecyl Acrylate (C17A) [1473386-36-5]			-64	-	x		x		x		x		x	x
Lauryl Acrylate 1214 F (LA 1214 F) [2156-97-0] (C12); [21643-42-5] (C14)	✓	 n = 12, 14	-	296	x	x	x	x	x	x	x			x
Lauryl Acrylate 12 F (LA 12 F) [2156-97-0]	✓		-	296	x	x	x	x	x	x	x			x
Stearyl Acrylate 1618 (SA 1618) [13402-02-3] (C16); [4813-57-4] (C18)	✓	 n = 16, 18	-	160 (3 mbar)	x		x		x	x	x			x
Stearyl Acrylate 18 (SA 18) [4813-57-4]	✓	 n = 18	-	160 (3 mbar)	x		x		x	x	x			x
Behenyl Acrylate 1822 F (BEA 1822 F) [4813-57-4] (C18); [48076-38-6] (C20); [18299-85-9] (C22)	✓	 n = 18, 22	-	410	x		x		x	x	x			x
Behenyl Acrylate 22 F (BEA 22 F) [18299-85-9] (C22)	✓		-	410	x		x		x	x	x			x
Alkyl Methacrylates														
tert-Butyl Methacrylate (TBMA) [585-07-9]			107	136	x	x	x		x	x			x	
Cyclohexyl Methacrylate (CHMA) [101-43-9]			105	94 (20 mbar)	x	x	x		x		x	x	x	x
2-Ethylhexyl Methacrylate (2-EHMA F) [688-84-6]			-10	228	x	x	x		x		x		x	
iso-Decyl Methacrylate (IDMA) [29964-84-9]			-30	263	x		x				x			
Isotridecyl Methacrylate (C13MA) [85736-97-6]			-31	-	x		x				x			
Lauryl Methacrylate 1214 F (LMA 1214 F) [142-90-5] (C12); [2549-53-3] (C14)	✓	 n = 12, 14	-50	308	x	x	x		x	x	x			

Product [CAS no.]	C^{14} BIO-based content	Chemical Structure	Polymer Tg [°C]	Bp [°C]	**Coatings** (Automotive / Industrial)	**Emulsions** (Coatings / Adhesives)	**Adhesives & Sealants**	**Paper**	**Leather / Textile**	**Oilfield**	**Lubricants**	**Construction**	**Rubber / Plastics**	**Rad / UV Cure**
Alkyl Methacrylates														
Lauryl Methacrylate 1215 F (LMA 1215 F) [90552-02-6]		 n =12, 13, 14, 15	-	307	x	x	x		x	x	x			
Cetyl Methacrylate 1618 F (CEMA 1618 F) [2495-27-4] (C16); [32360-05-7] (C18)		 n = 16, 18	-24	190-210 (64 mbar)	x		x		x	x	x			
Stearyl Methacrylate 1618 F (SMA 1618 F) [2495-27-4] (C16); [32360-05-7] (C18)		 n = 16, 18	-22	190-210 (64 mbar)	x		x		x	x	x			
Stearyl Methacrylate 18 F (SMA 18 F) [32360-05-7]			-	-	x		x		x	x	x			
Behenyl Methacrylate 1822 F (BEMA 1822 F) [32360-05-7] (C18); [16669-27-5] (C22)		 n = 18, 22	-	190-210 (64 mbar)	x		x		x	x	x			
PEG Methacrylates														
Stearyl Polyethyleneglycol Methacrylate 1100 (SPEGMA 1100) [70879-51-5]		 n = 25, m = 16, 18	-	-		x								
Behenyl Polyethyleneglycol Methacrylate 1100 (BEPEGMA 1100) [125441-87-4]		 n = 25, m = 18, 22	-	-		x								
Methyl Polyethyleneglycol Methacrylate 2000 (MPEGMA 2000) [26915-72-0]			-	-		x						x		
Hydroxies														
2-Hydroxyethyl Acrylate (HEA) [818-61-1]			-15	200	x	x	x					x		x
Hydroxypropyl Acrylate (HPA) [25584-83-2]			-7	199	x	x	x					x		x
4-Hydroxybutyl Acrylate (4-HBA) [2478-10-6]			-65	236	x	x	x							x
Hydroxyethylcaprolactone (HECLA) [110489-05-9]		 n = average 2	-52	-	x	x	x							x

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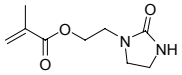
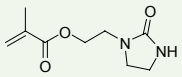
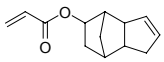
Misc. Monomers														
Ureido Methacrylate 25% in MMA (UMA 25%) [86261-90-7]			-	101	x	x	x				x			
Ureido Methacrylate 50% in Water (UMA 50%) [86261-90-7]			-	101	x	x	x				x			
Dihydrodicyclopentadienyl Acrylate (DCPA) [12542-30-2]			-	81 (0.7 mbar)	x		x						x	x

C^{14} BIO-based content

We want to contribute to a world that provides a viable future with enhanced quality of life for everyone. We do so by creating chemistry for our customers and society and by making the best use of available resources. Please contact us for any further questions to sustainable product solutions.

For further information on Acrylic & Methacrylic Monomers, please visit us at basf.com

More information on sustainability at BASF:

The Mass Balance Approach

Chemical recycling of plastic waste

Version dated 09/2021

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