

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		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]			-	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			

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Alkyl Methacrylates														
Lauryl Methacrylate 1215 F (LMA 1215 F) [90552-02-6]			-	307	x	x	x		x	x	x			
Cetyl Methacrylate 1618 F (CEMA 1618 F) [2495-27-4] (C16); [32360-05-7] (C18)			-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)			-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)			-	190-210 (64 mbar)	x		x		x	x	x			
PEG Methacrylates														
Stearyl Polyethyleneglycol Methacrylate 1100 (SPEGMA 1100) [70879-51-5]			-	-		x								
Behenyl Polyethyleneglycol Methacrylate 1100 (BEPEGMA 1100) [125441-87-4]			-	-		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]			-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	

C¹⁴ BIO-based content

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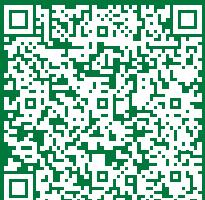


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The Mass Balance
Approach



Chemical recycling
of plastic waste

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