

Resin solubility chart^{a,b}



		Ethylene- vinyl acetate	Cellulose nitrate	Cellulose acetate butyrate	Cellulose acetate propionate	Cellulose acetate	Terpene	Rosin ester	Phenolic	Hydrocarbon	Ketone aldehyde	Polyvinyl butyral	Alkyd	Polyester	Acrylic			Urea	Melamine	Isocyanate	Polyamide		Phenoxy	Vinyl chloride/ vinyl acetate	Epoxy		
Solvent	Evaporation rate (n-BuOAc=1)	Elvax® 40W 20 wt%	Walsroder® E 560 8 wt%	Eastman CAB-381-0.5 8 wt%	Eastman CAP-482-0.5 20 wt%	Eastman CA-398-3 10 wt%	Nirez 36-507® 40 wt%	Pentalyn G® 40 wt%	GP® CK-2400 40 wt%	Eastotac™ H-130 60 wt%	Reactol™ 1717 A 50 wt%	Butvar™ B-76 10 wt%	Duramac HS 057-5776* 65 wt%	Polymac 057-5776* 65 wt%	Thermoset™ 70 wt%	Paraloid® B-66 40 wt%	Elvacite™ 2010 20 wt%	Resimene 980® 75 wt%	Cymel® 303 50 wt%	Desmodur® N-100 50 wt%	Ancamide 805® 75 wt%	Versamid® 115 [†] 75 wt%	Paphen PKHH™ 25 wt%	Ucar™ VYHH® 10 wt%	Epon™ 1001F 50 wt%	Epon™ 1007F 40 wt%	
Esters																											
Methyl acetate	6.0	I	14	14	510	120	I	11	19	I	—	PS	342	57	292	340	53	25	5	7	NA	1600	I	PS	40	120	
Ethyl acetate (85%–88%)	4.2	I	17	15	550	157	I	14	18	I	—	110	412	76	332	440	72	30	5	11	NA	1600	I	18	45	190	
Ethyl acetate, urethane grade	4.1	I	20	16	670	346	I	9	18	I	42	130	458	77	351	390	76	28	5	10	NA	1700	I	13	50	140	
Dimethyl carbonate	3.2	I	PS	32	893	PS	—	—	20	I	—	PS	649	148	670	815	PS	—	7	—	NA	—	PS	I	88	404	
Isopropyl acetate	3.0	I	22	17	1650	I	I	19	25	I	65	200	521	113	434	390	160	41	6	13	NA	2150	I	23	76	I	
t-Butyl acetate	2.8	I	110	40	PS	I	101	102	39	I	304	I	1490	205	815	1410	I	79	7	16	NA	2840	I	I	I	I	
n-Propyl acetate	2.3	I	22	18	1350	I	20	15	28	I	48	180	514	103	422	640	120	44	6	10	NA	1500	I	16	78	210	
Isobutyl acetate	1.4	I	32	28	PS	I	17	16	43	I	108	320	638	145	551	1200	360	53	6	12	NA	2950	I	20	110	PS	
n-Propyl propionate	1.2	I	14	24	—	I	—	—	17	252	—	474	1140	155	745	878	I	147	7	15	NA	PS	I	I	117	I	
n-Butyl acetate	1.0	I	30	28	PS	I	15	15	35	53	77	185	907	155	697	563	PS	—	6	—	NA	—	PS	13	87	PS	
n-Butyl propionate	0.5	PS	109	116	I	I	95	27	22	306	185	270	822	214	508	910	230	48	6	10	NA	2200	I	20	88	320	
p-Amyl acetate	0.4	I	40	31	I	I	18	20	48	64	I	420	—	—	—	1350	316	63	8	14	NA	2250	I	26	130	I	
Isobutyl isobutyrate	0.4	I	100	I	I	I	20	25	90	73	—	I	898	212	681	4150	I	88	8	15	NA	3300	I	I	I	I	
Hexyl acetate	0.2	I	48	48	PS	I	23	25	73	I	306	730	855	225	685	2450	I	75	13	60	NA	3290	I	58	210	I	
Pentyl propionate	0.18	PS	60	I	I	I	15	170	60	59	—	520	931	—	855	2700	I	91	11	29	NA	4250	I	65	210	I	
Heptyl acetate	0.08	I	65	I	I	I	25	35	130	110	574	1700	960	292	731	4400	I	100	16	52	NA	4100	I	I	350	I	
2-Ethylhexyl acetate	0.03	I	90	I	I	I	30	38	180	140	I	I	1100	329	825	8950	I	130	14	25	NA	6400	I	PS	I	I	
EG diacetate	0.02	I	220	160	9700	1600	I	I	340	I	—	I	845	351	798	27000	I	120	17	30	NA	I	I	I	500	2300	
Methyl soyate	0.01	I	I	I	I	I	—	—	511	PS	I	I	1830	811	1700	64533	I	—	33	—	NA	—	I	I	I	I	
Dibasic esters	0.007	I	200	140	10200	PS	I	140	I	I	651	2050	898	384	862	9350	1750	120	18	34	NA	I	6000	PS	450	1500	
Propylene carbonate	<0.005	I	72	242	5913	I	—	—	PS	I	—	I	1240	688	1467	PS	PS	—	21	—	NA	—	PS	PS	1170	4527	
Ketones																											
Acetone	6.3	I	7	8	220	48	I	I	10	PS	6	58	240	37	212	23	38	20	4	7	715	1500	I	7	28	60	
Methyl ethyl ketone	3.8	I	10	12	360	131	I	9	18	PS	9	70	322	54	259	160	38	25	4	7	212	2000	PS	8	38	78	
Methyl n-Propyl ketone [‡]	2.3	I	14	13	PS	I	PS	9	18	PS	15	98	387	71	342	240	46	30	4	8	307	3500	I	10	40	80	
Methyl isobutyl ketone	1.6	I	19	15	PS	I	20	15	30	PS	28	160	544	105	433	390	96	38	5	9	357	3400	I	13	68	I	
Methyl isomyl ketone	0.5	I	23	20	PS	I	17	20	45	22	57	200	434	85	389	650	200	48	6	11	788	4350	I	15	90	320	
Methyl n-amyl ketone	0.4	I	25	20	PS	I	14	13	34	12	37	180	581	123	498	580	220	45	7	11	571	4000	I	16	82	270	
Cyclohexanone	0.3	I	74	77	3900	1200	76	74	48	1050	432	550	969	382	872	3150	I	81	14	34	6580	7000	2300	60	500	1350	
Diisobutyl ketone	0.2	I	46	I	I	I	24	28	130	21	PS	I	985	247	721	2850	I	90	12	18	534	6000	I	43	I	I	
Diacetone alcohol	0.12	I	130	100	2400	1550	I	I	620	I	453	1150	935	433	812	9150	590	120	20	NA	927	5750	8850	I	580	2550	
Eastman C-11 ketone	0.02	I	72	I	I	I	12	43	250	160	380	900	1040	326	818	5000	I	120	20	76	1300	7800	I	55	500	I	
Isophorone	0.02	I	110	110	8000	1800	I	120	2300	I	837	730	1090	665	977	6750	I	180	22	45	1500	13500	4800	68	1200	3750	
Glycol ethers [§]																											
Eastman PM solvent	0.7	I	80	49	2450	I	I	63	150	I	—	500	621	215	551	5900	570	64	12	NA	185	4000	3650	I	240	1050	
EG Methyl ether	0.47	I	60	57	2450	I	I	I	100	I	—	PS	—	—	—	7300	780	50	9	NA	—	3700	2850	I	170	730	
EG Ethyl ether	0.3	I	73	53	PS	I	I	70	130	I	—	470	628	199	514	8150	I	55	12	NA	180	4000	2900	I	200	740	
PG tert-Butyl ether	0.3	I	150	I	I	I	I	140	1420	I	—	1150	1050	581	868	19500	I	150	25	NA	387	12800	I	I	1250	PS	
PG Propyl ether	0.2	I	95	I	I																						

Viscosity conversions (for Newtonian fluids, @25°C)						
Centipoise (mPa-s)	Forð™ Cup #4	Zahn™ #2 (sec)	Zahn™ #3 (sec)	Zahn™ #4 (sec)	Gardner Holdt™	Krebs Stormer™
1	—	—	—	—	A-5	—
10	16	—	—	—	A-4	—
15	17	—	—	—	A-3	—
22	14	19	—	—	A-2	—
32	15	20	—	—	A-1	—
50	19	22	—	—	A	—
65	22	27	—	—	B	—
85	27	34	—	—	C	—
100	30	41	12	—	D	—
125	36	49	14	11	E	—
140	40	58	16	13	F	—
165	46	66	18	14	G	—
200	50	82	23	17	H	52
225	55	—	25	18	I	54
250	68	—	27	20	J	56
275	74	—	32	22	K	59
300	81	—	34	24	L	61
320	86	—	36	25	M	62
340	91	—	39	26	N	63
370	99	—	41	28	O	64
400	107	—	46	30	P	65
435	116	—	50	33	Q	66
470	125	—	52	34	R	67
500	133	—	57	37	S	68
550	146	—	63	40	T	69
600	167	—	68	44	U	71
885	199	—	—	64	V	78
1070	270	—	—	—	W	85
1290	—	—	—	—	X	95
1700	—	—	—	—	Y	100
2270	—	—	—	—	Z	105
2700	—	—	—	—	Z-1	114
3620	—	—	—	—	Z-2	129
4630	—	—	—	—	Z-3	136
6340	—	—	—	—	Z-4	—
9850	—	—	—	—	Z-5	—
14800	—	—	—	—	Z-6	—

Other Eastman products	
Eastman cellulose esters	Cellulose acetate propionate
Cellulose acetate butyrate	CAP-482-0.5 CAP-482-20 DMCD (dimethyl 1,4-cyclohexanedicarboxylate)
Eastman resin intermediates	1,4-CHDA-HP ADEM (acetooacetoxyethyl methacrylate)
Eastman specialty products	Eastman MPC™ glycol isophthalic acid t-BAA (tertiary-butyl acetooacetate)
Adhesion promoters	Eastman THP-D™ glycol Purified terephthalic acid (PTA) Benzoic acid technical grade, flake
Cellulose acetate	CA-398-3 Chlorinated polyolefin 349W CA-398-6 Chlorinated polyolefin 515-2 CA-398-10 Chlorinated polyolefin 730-1 Adhesion promoter 550-1
Eastman plasticizers	Eastman 168™ non-phthalate plasticizer Eastman 425 plasticizer Eastman Triacetin Eastman TOTM plasticizer
Aqueous film formers	Eastman AQ™ 1350 copolyester Eastman AQ™ 1950 copolyester Eastman AQ 2350 copolyester Eastman AQ 385 polymer Eastman AQ 48 ultra polymer Eastman AQ 555 polymer Eastman AQ 655 polymer Eastak™ 1000 polymer dispersion Eastak™ 1100 polymer dispersion Eastak™ 1200 polymer dispersion Eastak™ 1300 polymer dispersion Eastak™ 1400 polymer dispersion
Polyvinyl butyral resins	Butvar™ B-72 Butvar B-74 Butvar B-76 Butvar B-79 Butvar B-90 Butvar B-98

Eastman solvents

Eastman Chemical Company has two online solvent tools: Solvent Comparison Tool and Solvent Reformulation Tool. The purpose of these tools is to help you sort through the long list of available solvents and develop solvent blend alternatives to satisfy targeted cost and/or performance goals while still considering regulatory information.

Solvent Comparison Tool

- Allows you to quickly compare solvents using 14 search filters including Hansen Solubility Parameters
- Narrows search based on physical and regulatory properties to more quickly identify a product to fit your needs
- Has an extended database including newer VOC-e-exempt and bio-based solvents
- Lets you rapidly access biodegradable and LVP-VOC information concerning Eastman products
- Makes it easy to download and export the results of your search

Solvent Reformulation Tool

- Assists you in analyzing blend compositions to:

- » Save cycle time
- » Reduce costs
- » Enhance performance
- » Achieve regulatory compliance
- Includes traditional and newer solvents that are VOC-e-exempt and bio-based
- Allows you to add any new solvent
- Saves your blend history throughout each session, which can be downloaded as a spreadsheet for easy comparison of multiple blends
- Eastman publications suggesting solvent blend replacements are quickly accessible via the tool.

Visit www.eastman.com/solventtools to access both online solvent tools. If you'd like to discuss your options with someone in technology, email solverfwiz@eastman.com.

Eastman solvents available in electronic grade	
Eastman Estature™ electronic chemicals	DE solvent
PM acetate, stabilized	EP solvent
Acetic acid	MAK
n-Butyl acetate	PM acetate
DB solvent	Ethyl acetate
EB solvent	

Eastman solvents available in urethane grade ^a	
Eastman butyl acetate	Eastman n-butyl propionate
Eastman DE acetate	Eastman EB acetate
Eastman EEP solvent	Eastman ethyl acetate, urethane grade
Eastman isobutyl acetate	Eastman 2-ethylhexyl acetate
Eastman Bibl	Eastman isobutyl acetate
Eastman isopropyl acetate	Eastman methyl acetate-HP
Eastman MAk (methyl n-amyyl ketone)	Eastman MAk (methyl isomyl ketone)
Eastman MPK (methyl n-propyl ketone)	Eastman PM acetate
Eastman n-propyl propionate	
^a Water content is 0.05% maximum.	

EASTMAN

Resin solubility chart

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