

Solvent selector chart



Active solvent*	CAS number	Evaporation rate		Formula	Dilution ratio ^a		Blush resistance % RH @ 80°F	Specific gravity @ 20°C/20°C	Wt/vol @ 20°C		Flash point, TCC, °F	Freezing point, °F	Vapor pressure			Surface tension, dynes/cm		Boiling range @ 760 Torr, °C	Solubility @ 20°C wt%		Azeotrope		Autoignition temperature, °C	Refractive index		Electrical resistance, ^b megohms	Hansen solubility parameters ^c				Gram molecular weight	Molar volume, (cm ³ /mole)	Liquid viscosity, cP (mPa-s/°C)	TLV ^d PPM 2014	MIR ^e values, g O ₂ /g VOC	
		<i>n</i> -BuOAc = 1	Ethyl ether = 1		Toluene	VM&P Naphtha			torr				KPa	Value		In water	Water in		BP, °C	Wt% water ^d	Value	Temp.		Total	Nonpolar		Polar	Hydrogen bonding								
									@ 20°C	@ 25°C				@ 55°C	@ 20°C														@ 25°C							
Tetrahydrofuran	109-99-9	6.3	19	[CH ₂ CH ₂ CH ₂ CH ₂]	2.8	10	50	0.889	741	0.89	6	-163	143.0	—	700	26.4	25°C	65–67	Complete	Complete	63.8	4.6	321	1.4073	20°C	2.0	194	16.8	5.7	8.0	72.11	81.9	~ 0.46/25	50	4.31	
Acetone	67-64-1	6.3	19	CH ₃ COCH ₃	4.6	0.5	20	0.792	6.61	0.79	-4	-138	185.0	—	976	22.3	20°C	55.5–57.1	Complete	Complete	None	—	538	1.3591	20°C	< 0.01	201	15.5	10.4	70	58.08	73.8	0.31/25	500	0.36	
Eastman methyl acetate, high purity	79-20-9	6.2	19	CH ₃ COOCH ₃	2.9	0.9	—	0.933	778	0.93	4	-144	179.5	—	94.3	25.2	20°C	55.8–58.2	22.7	8.8	561	5.0	501	1.3589	20°C	4.0	18.8	15.5	7.2	76	74.09	79.8	—	200	0.07	
Eastman methyl acetate	—	6.0	2.0	CH ₃ COOCH ₃	2.9	0.9	20	0.934	778	0.93	5	-144	178.3	—	94.4	25.8	20°C	55.8–58.2	22.0	7.3	—	—	501	1.3600	20°C	0.4	18.8	15.5	7.2	76	74.09	—	0.4/20	200	—	
Eastman ethyl acetate, 85%–88%	—	4.2	2.8	CH ₃ COOC ₂ H ₅	3.3	1.2	38	0.884	736	0.88	27	-118	75.0	—	—	24.2	20°C	71–79	74	31	70.4	8.5	466	1.3693	20°C	0.3	—	—	—	—	88.11	—	—	—	—	
Eastman ethyl acetate, urethane grade	141-78-6	4.1	2.9	CH ₃ COOC ₂ H ₅	3.1	1.1	39	0.901	751	0.90	24	-118	86.0	—	45.9	23.9	20°C	75.5–78.5	74	3.3	70.4	8.5	485	1.3718	20°C	20	18.0	15.8	5.3	72	88.11	98.6	0.5/25	400	0.63	
Methyl ethyl ketone (MEK)	78-93-3	3.8	31	CH ₃ COC ₂ H ₅	4.3	0.9	45	0.802	6.67	0.80	16	-124	70.2	—	43.6	24.6	20°C	79.6	271	12.5	73.4	11.0	474	1.3788	20°C	0.2	18.6	15.5	9.0	51	72.11	90.2	0.41/25	200	1.48	
Dimethyl carbonate (DMC)	616-38-6	3.2	3.7	(CH ₃ O) ₂ CO	—	—	—	1.07	8.93	1.07	63	36–39	42.0	—	—	28.5	20°C	90	13.9	—	—	—	—	13687	20°C	—	20.3	17.4	9.6	3.9	90.08	84.7	0.625/20	—	0.06	
Eastman isopropyl acetate	108-21-4	3.0	3.9	CH ₃ COOCH(CH ₃) ₂	3.0	1.2	62	0.873	7.26	0.87	35	-99	47.5	—	30.7	22.1	20°C	85–91	2.9	1.8	76.6	10.6	479	1.3772	20°C	> 20	17.6	14.9	4.5	8.2	102.13	117.6	0.6/20	100	1.07	
Eastman MIPK (methyl isopropyl ketone)	563-80-4	2.9	4.1	CH ₃ COCH ₂ CH(CH ₃) ₂	—	—	—	0.805	6.64	0.8	2	-92	42.0	—	—	—	—	94.2	42–66	—	—	—	—	448	1.3857	20°C	—	17.4	15.5	6.8	4.1	86.10	107.0	0.565/25	20	1.65
<i>t</i> -Butyl acetate	540-88-5	2.8	4.2	CH ₃ COOC ₄ H ₉	—	—	—	0.862	7.24	0.87	40	-73	—	34.0	22.7	22.4	20°C	98	0.3	—	—	—	—	518	1.3870	20°C	> 20	15.8	14.3	3.5	5.9	116.16	134.8	< 1.0/25	200	0.18
Eastman MPK (methyl <i>n</i> -propyl ketone)	107-87-9	2.3	5.1	CH ₃ COC ₃ H ₇	3.9	1.0	70	0.807	6.74	0.81	46	-123	278	—	19.2	26.6	20°C	101–105	3.1	4.2	83.3	19.5	449	1.3902	20°C	0.3	18.2	16.0	7.6	4.7	86.13	107.3	0.7/25	—	2.81	
Eastman propyl acetate	109-60-4	2.3	5.1	CH ₃ COOC ₃ H ₇	3.2	1.5	65	0.889	739	0.89	55	-134	23.0	—	18.9	24.3	20°C	99–103	2.3	2.6	82.4	14.0	457	1.3847	20°C	> 20	17.6	15.3	4.3	7.6	102.14	115.8	0.6/20	200	0.78	
Eastman MIBK (methyl isobutyl ketone)	108-10-1	1.6	7.4	CH ₃ COCH ₂ CH(CH ₃) ₂	3.5	1.0	78	0.802	6.67	0.80	60	-119	15.0	—	11.7	23.6	20°C	114–117	2.0	1.0	879	24.3	449	1.3958	20°C	0.4	17.0	15.3	6.1	4.1	100.16	125.8	0.6/20	20	3.88	
Eastman isobutyl acetate	110-19-0	1.4	8.4	CH ₃ COOCH ₂ CH(CH ₃) ₂	2.7	1.1	80	0.870	7.25	0.87	69	-146	12.5	—	10.7	23.7	20°C	112–119	0.7	1.6	87.4	16.5	427	1.3895	20°C	> 20	16.8	15.1	3.7	6.3	116.16	133.8	0.7/20	150	0.62	
Eastman <i>n</i> -propyl propionate	106-36-5	1.2	9.8	C ₃ H ₇ COOC ₃ H ₇	—	—	—	0.880	734	0.88	72	-105	10.0	—	8.6	24.7	20°C	118.8–124	0.5	0.8	—	—	435	1.3920	20°C	> 20	17.6	15.5	3.7	7.4	116.16	132.5	0.7/20	—	0.84	
Eastman butyl acetate	123-86-4	1.0	11.8	CH ₃ COOC ₄ H ₉	2.7	1.2	83	0.883	735	0.88	81	-101	10.0	—	7.4	25.1	20°C	122–129	0.7	1.6	90.2	28.7	407	1.3941	20°C	> 20	17.4	15.8	3.7	6.3	116.16	132.6	0.7/20	150	0.83	
Eastman PM solvent	107-98-2	0.7	16.9	CH ₃ OCH ₂ CH(CH ₃)OH	5.2	0.9	56	0.923	7.69	0.92	90	-139	8.0	—	8.1	28.3	25°C	120	Complete	Complete	—	—	277	1.4036	20°C	0.4	20.5	15.5	6.3	11.7	90.12	98.3	1.9/20	50	2.44	
Dimethylacetamide (DMAC)	127-19-5	0.69	172	C ₄ H ₉ NO	—	—	—	0.943	7.86	0.94	144	-4	1.78	2.66	—	33.8	20°C	166	Complete	Complete	—	—	354	1.4380	20°C	—	22.7	16.8	11.5	10.2	87.2	92.5	1.02/20	10	—	
Eastman MIAK (methyl isoamyl ketone)	110-12-3	0.5	23.6	CH ₃ COC ₅ H ₁₁ CH(CH ₃) ₂	4.1	1.2	89	0.813	6.76	0.81	96	-101	4.5	—	3.7	25.8	20°C	141–148	0.5	1.2	94.7	44.0	424	1.4078	20°C	0.6	17.0	15.5	5.7	4.1	114.19	141.3	0.7/25	20	2.41	
Methyl amyl acetate	108-84-9	0.5	23.6	CH ₃ COOCH ₂ CH ₂ C ₅ H ₁₁	1.7	1.0	92	0.860	7.14	0.86	96	-83	4.0	—	—	25.0	20°C	146.2	0.1	0.6	94.8	36.7	—	1.4008	20°C	> 20	16.8	15.1	3.1	6.8	144.21	167.4	1.96/20	50	1.35	
Eastman <i>n</i> -butyl propionate	590-01-2	0.5	23.6	C ₃ H ₇ COOC ₄ H ₉	1.8	1.1	—	0.876	730	0.87	97	-103	3.0	—	3.3	25.3	20°C	145–149	0.4	0.7	—	—	427	1.4040	20°C	> 20	17.2	15.3	3.3	6.8	130.19	149.4	0.8/20	—	0.84	
<i>p</i> -Amyl acetate	628-63-7, 624-41-9	0.5	29.5	CH ₃ COOC ₅ H ₁₁ (mixed isomers)	2.3	1.3	92	0.876	729	0.87	100	-148	4.0	—	—	25.8	20°C	146	0.2	0.9	95.2	41.0	—	1.4013	20°C	16.0	17.6	15.8	3.9	6.8	130.19	149.4	0.9/20	50	0.84	
Eastman PM acetate	108-65-6	0.4	29.5	CH ₃ COOCH(CH ₃)CH ₂ OCH ₃	2.6	0.8	92	0.970	8.06	0.97	114	< -89	3.7	—	3.0	26.4	20°C	140–150	20.0	5.9	—	—	354	1.3995	20°C	5.0	19.2	15.5	5.5	9.8	132.20	137.0	1.1/25	—	1.70	
Eastman MAK (methyl <i>n</i> -amyl ketone)	110-43-0	0.4	29.5	CH ₃ COC ₅ H ₁₁	3.9	1.2	93	0.818	6.80	0.82	102	-27	2.14	—	2.8	26.1	20°C	1																		

Eastman
solvents

Eastman has two online solvent tools: the Solvent Comparison tool and the Solvent Reformation 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 performance goals and/or targeted costs while still considering regulatory information.

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|---------------------------------------|---|
| Eastman EEP solvent | • Allows you to quickly compare solvents using 14 search filters, including Hansen Solubility Parameters |
| Eastman ethyl acetate, urethane grade | • Narrows search based on physical and regulatory properties to more quickly identify a product to fit your needs |
| Eastman isobutyl acetate | • A robust database that includes newer VOC-exempt solvents |
| Eastman IBIB | • Lets you rapidly access biodegradable and VLP-/VOC information concerning Eastman products |
| Eastman Z-ethylhexyl acetate | • Makes it easy to download and export the results of your search |

Solvent Reformulation Tool

- Assist you in analyzing blend compositions to:
 - » Save cycle time
 - » Reduce costs
 - » Enhance performance
 - » Achieve regulatory compliance
 - Includes traditional and newer solvents as well as biodegradability information
 - Allows you to add any new solvent
 - Saves your blend history throughout each session
 - Can be downloaded as a spreadsheet for easy comparison of blends
 - Offers suggestions for solvent blend replacement
- Visit eastman.com/solventtools to access both tools. If you'd like to discuss your options with a technology, email solvew@eastman.com.

one in
the solvent



Eastman EastaPure™ electronic chemicals

available in electronic grade

PM acetate, stabilized
Acetic acid
n-Butyl acetate
MAK
MPK
PM acetate
DB solvent
Ethyl acetate
EB solvent

Compound	VOX CAA, Title I	LVP-VOX	CAA, Title III	HAP list III	HAP content, wt%	SARA Title III Sec. 313	Prop 65	Ozone depleting substance CAA, Title VI	Vapor pressure @ 20°C, mmHg	MIR value: g O ₃ /g VOC	FIFRA pesticide inert ingredient status ^a
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Eastman solvents: U.S. regulatory information

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products, we cannot guarantee that the status of these products will remain unchanged. Therefore, we recommend that customers containing these products verify their status periodically. Users should consider this regulatory information provided only as a supplement to other information, such as safety data sheets. It is the responsibility of our customers to determine that their product contains 5.2 wt % methanol, which is a HAP VOC, and Prop 65 chemical. ¹Repealed MRL value for EG mono-2-ethylhexyl ether is 155 ppm. ²ethylene glycol ether is an 85/15 mixture of EG and 1,2-EG. ³California Code of Regulations, Division 3, Chapter 1, Subchapter 6, Section 94501.94517. ⁴For details on status and specific permissions for Florida products, visit snpf.usgfw.com/govdocs/permits/eg/PDF/NEFRI11.pdf. ⁵Superfund Amendments and Reauthorization Act, 1992.

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Other Eastman products

Eastman cellulose esters

Cellulose acetate propionate

CAP-482-0.5
CAP-482-20
CAP-504-0.2

Cellulose acetate butyrate

CAB-171-15	Eastman NPG glycol
CAB-321-01	Isophthalic acid
CAB-381-01	<i>t</i> -BAA (tertiary-butyl acetoacetate)
CAB-381-0.5	Eastman TMPD™ glycol
CAB-381-2	Purified terephthalic acid (PTA)
CAB-381-2 BP	Benzoic acid technical grade, flake
CAB-381-20	Pamolyn™ fatty acids
CAB-381-20 BP	
CAB-500-5	
CAB-531-1	
CAB-551-0.01	
CAB-551-0.2	
CAB-553-0.4	

Cellulose acetate

CA-394-60
CA-398-3
CA-398-6
CA-398-10
CA-398-30

Eastman plasticizers

Eastman 168™ non-phthalate plasticizer
Eastman 425 plasticizer
Eastman Triacetin
Eastman TOTM plasticizer
Eastman Efusion™ plasticizer
Admex™ polymeric plasticizers
Eastman DOA plasticizer
Eastman DOM plasticizer
Eastman DOP plasticizer
Benzoflex™ 50 plasticizer
Benzoflex 9-88 plasticizer
Benzoflex 1046 plasticizer
Benzoflex 6000 plasticizer
Eastman VersaMax™ plasticizer
Eastman TEG-EH plasticizer
Eastman VersaBond™ plasticizer
Eastman Versafix™ plasticizer

Eastman performance additives

Eastman Solus™ 2100 performance additive
Eastman Solus 2300 performance additive
Eastman Solus 3050 performance additive
Eastman Optifilm™ additive OT1200

Eastman resin intermediates

AAEM (acetoacetoxyethyl methacrylate)
1,4-CHDA-HP
CHDM-D
DMCD (dimethyl 1,4-cyclohexanedicarboxylate)
HPHP glycol
Eastman NPG™ glycol
Isophthalic acid
t-BAA (tertiary-butyl acetoacetate)
Eastman TMPD™ glycol
Purified terephthalic acid (PTA)
Benzoic acid technical grade, flake
Pamolyn™ fatty acids

Eastman specialty products

Adhesion promoters

Chlorinated polyolefin 153-2
Chlorinated polyolefin 164-1
Chlorinated polyolefin 310W
Chlorinated polyolefin 343-1
Chlorinated polyolefin 343-3
Chlorinated polyolefin 347W
Chlorinated polyolefin 349W
Chlorinated polyolefin 515-2
Chlorinated polyolefin 730-1
Adhesion promoter 550-1
Eastman Advantis™ adhesion promoter 510W

Sucrose acetate isobutyrate

SAIB-100
SAIB-90
SAIB-90EA

Aqueous film formers

Eastman AQ[®] 1350 copolyester
Eastman AQ 1950 copolyester
Eastman AQ 2350 copolyester
Eastman AQ 38S polymer
Eastman AQ 48 ultra polymer
Eastman AQ 55S polymer
Eastman AQ 65S polymer
Eastek[™] 1000 polymer dispersion
Eastek 1100 polymer dispersion
Eastek 1200 polymer dispersion
Eastek 1300 polymer dispersion
Eastek 1400 polymer dispersion

Polyvinyl butyral resins

Butvar® B-72
Butvar B-74
Butvar B-76
Butvar B-79
Butvar B-90
Butvar B-98

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