

EASTMAN

Solvent selector chart



Solvent selector chart

Active solvent ^a	CAS number	Evaporation rate		Formula	Dilution ratio ^b		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, megohms	Hansen solubility parameters ^f				Gram molecular weight	Molar volume, (cm ³ /mole)	Liquid viscosity, cP (mPa·s/°C)	TLV ^g PPM 2014	MIR ^h values, g O ₂ /g VOC
		<i>n</i> -BuOAc = 1	Ethyl ether = 1		Toluene	VM&P Naphtha			@ 20°C	@ 25°C			KPa	Value	Temp.	In water	Water in		BP, °C	Wt% water ^d	Value	Temp.		Total	Nonpolar		Polar	Hydrogen bonding							
Tetrahydrofuran	109-99-9	6.3	19	<chem>[CH2]COCH2CH2CH2[CH2]</chem>	2.8	10	50	0.889	741	0.89	6	-163	143.0	—	70.0	26.4	25°C	65–67	Complete	Complete	63.8	4.6	321	1.4073	20°C	2.0	19.4	16.8	5.7	8.0	72.11	81.9	~ 0.46/25	50	4.31
Acetone	67-64-1	6.3	19	<chem>CH3COCH3</chem>	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	20.1	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	<chem>CH3COOCH3</chem>	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	<chem>CH3COOCH3</chem>	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	<chem>CH3COOC2H5</chem>	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	<chem>CH3COOCH2CH2[CH2]</chem>	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	<chem>CH3COC2H5</chem>	4.3	0.9	45	0.802	6.67	0.80	16	-124	70.2	—	43.6	24.6	20°C	79.6	27.1	12.5	73.4	11.0	474	1.3788	20°C	0.2	18.6	15.5	9.0	5.1	72.11	90.2	0.41/25	200	1.48
Dimethyl carbonate (DMC)	616-38-6	3.2	3.7	<chem>(CH3O)2CO</chem>	—	—	—	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	<chem>CH3COOCH(CH2[CH2])</chem>	3.0	1.2	62	0.873	726	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	<chem>CH3COCH2CH(CH2[CH2])</chem>	—	—	—	0.805	6.64	0.8	2	-92	42.0	—	—	—	—	94.2	42–66	—	—	—	448	1.3857	20°C	—	17.3	15.5	6.4	4.2	86.10	107.0	0.565/25	20	1.65
<i>t</i> -Butyl acetate	540-88-5	2.8	4.2	<chem>CH3COOC4H9</chem>	—	—	—	0.862	724	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	<chem>CH3COC4H9</chem>	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	<chem>CH3COOC3H7</chem>	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	<chem>CH3COCH2CH(CH2[CH2])</chem>	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	87.9	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	<chem>CH3COOCH2CH(CH2[CH2])</chem>	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	<chem>C2H5COOC3H7</chem>	—	—	—	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	17.4	15.5	5.6	5.7	116.16	132.5	0.7/20	—	0.84
Eastman butyl acetate	123-86-4	1.0	11.8	<chem>CH3COOC4H9</chem>	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	<chem>CH3OCH2CH(CH2[CH2])OH</chem>	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	<chem>C4H9NO</chem>	—	—	—	0.943	786	0.94	144	-4	1.78	2.66	—	33.8	20°C	161	Complete	Complete	—	—	354	1.4380	20°C	—	22.7	16.8	11.5	10.2	87.12	92.5	1.02/20	10	—
Eastman MIAK (methyl isoamyl ketone)	110-12-3	0.5	23.6	<chem>CH3COC4H9CH(CH2[CH2])</chem>	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	<chem>CH3COOCH(CH2[CH2])C2H5</chem>	1.7	1.0	92	0.860	714	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	<chem>C2H5COOC4H9</chem>	1.8	1.1	—	0.876	730	0.87	97	-103																							

Eastman solvents: U.S. regulatory information

Compound	VOC CAAA, Title I	LVP-VOC*	HAP list CAAA, Title III	HAP content, wt%	SARA Title III Sec. 313*	Prop 65	Ozone depleting substance CAAA, Title VI	Vapor pressure @ 20°C, mmHg	MIR value* g O ₂ /g VOC	FIFRA pesticide inert ingredient status ^d
Ketones										
Eastman MIPK (methyl isopropyl ketone)	Yes	No	No	< 1.0	No	No	No	42.00	1.65	—
Eastman MPK* (methyl <i>n</i> -propyl ketone)	Yes	No	No	≤ 10.0	No	No	No	27.80	2.81	NF, Fr
Eastman MIBK (methyl isobutyl ketone)	Yes	No	Yes	100	Yes	Yes	No	15.00	3.88	F, NF
Eastman MIAK (methyl isoamyl ketone)	Yes	No	No	< 1.0	No	No	No	4.50	2.41	NF
Eastman MAK (methyl <i>n</i> -amyl ketone)	Yes	No	No	< 1.0	No	No	No	210	2.36	F, NF, Fr
Eastman DIBK (diisobutyl ketone)	Yes	No	No	< 1.0	No	No	No	1.40	2.41	NF, Fr
Eastman C-11 ketone	Yes	No	No	< 1.0	No	No	No	—	—	—
Esters										
Methyl acetate	Exempt	No	No	≤ 2.5	No	No ^f	No	171.30	—	NF
Methyl acetate, high purity	Exempt	No	No	< 1.0	No	No	No	171.30	0.07	NF
Ethyl acetate, urethane grade	Yes	No	No	< 1.0	No	No	No	86.00	0.63	F, NF, Fr
Isopropyl acetate	Yes	No	No	< 1.0	No	No	No	47.50	1.07	NF, Fr
<i>n</i> -Propyl acetate	Yes	No	No	< 1.0	No	No	No	23.00	0.78	NF
Isobutyl acetate	Yes	No	No	< 1.0	No	No	No	12.50	0.62	F, NF, Fr
<i>n</i> -Propyl propionate	Yes	No	No	< 1.0	No	No	No	10.70	0.84	—
<i>n</i> -Butyl acetate	Yes	No	No	< 1.0	No	No	No	10.00	0.83	NF, Fr
IBIB	Yes	No	No	< 1.0	No	No	No	3.20	0.60	F, NF, Fr
<i>n</i> -Butyl propionate	Yes	No	No	< 1.0	No	No	No	3.00	0.84	—
EEP ether-ester	Yes	No	No	< 1.0	No	No	No	110	3.58	NF
2-EH acetate	Yes	No	No	< 1.0	No	No	No	0.40	0.66	NF
EG diacetate	Yes	No	No	< 1.0	No	No	No	0.20	0.66	—
GE esters										
PM acetate	Yes	No	No	< 1.0	No	No	No	3.70	1.70	—
EB acetate	Yes	No	Yes	100	Yes	No	No	0.29	1.62	NF
DE acetate	Yes	Yes	Yes	100	Yes	No	No	0.05	1.48	—
DB acetate	Yes	Yes	Yes	100	Yes	No	No	0.04	1.38	—
Glycol ethers										
Eastman PM	Yes	No	No	< 1.0	No	No	No	8.00	2.44	F, NF
Eastman EP	Yes	No	Yes	100	Yes	No	No	1.30	3.30	NF
Eastman EB	Yes	No	No	< 1.0	Yes	No	No	0.60	2.90	F, NF, Fr
Eastman DE	Yes	Yes	Yes	100	Yes	No	No	0.095	3.26	F, NF, Fr
Eastman DP	Yes	Yes	Yes	100	Yes	No	No	0.05	2.85	—
Eastman DB	Yes	Yes	Yes	100	Yes	No	No	0.02	2.39	F, NF
Eastman EEH	Yes	Yes	No	< 1.0	No	No	No	0.08	~1.55 ^g	—
Alcohols										
<i>n</i> -Propyl alcohol	Yes	No	No	< 1.0	No	No	No	14.5	2.50	F, NF
Isobutyl alcohol	Yes	No	No	< 1.0	No	No	No	9	2.51	F, NF
<i>n</i> -Butyl alcohol	Yes	No	No	< 1.0	Yes	No	No	5.5	2.88	F, NF, Fr
2-EH alcohol	Yes	Yes	No	< 1.0	No	No	No	0.05	2.00	F, NF, Fr
Amides										
Dimethylformamide	Yes	No	No	< 1.0	Yes	Yes	No	3.7	—	F, NF
Pyrrolidones										
Eastman TamiSolve™ NxG	Yes	No	No	< 1.0	No	Yes	No	0.26	—	—
<i>N</i> -methyl-2-pyrrolidone	Yes	No	No	< 1.0	Yes	No	No	0.29	—	F, NF

^aTitle 12, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94501-94517 ^bSuperfund Amendments and Reauthorization Act, Title III, Section 313, also known as Emergency Planning and Community Right-to-Know Act (EPCRA) ^cSAPRC-07, William P.L. Carter, Center for Environmental Research and Technology, College of Engineering, University of California—Riverside ^dFor details on status and specific permissions for FIFRA pesticide use, visit <https://esp.ca.gov/pwps/pwpspesticides/> (to=INERT) INDEX (to=NOI). ^eMIPK (methyl *n*-propyl ketone) is not on EPA's HAP or SARA lists or California's Prop 65 list. However, it does contain ≤ 10 wt% MIBK, which is on all three lists. ^fThis product contains ≤ 2 wt% methanol, which is a HAP, VOC, and Prop 65 chemical. ^gReported MIR value for EG mono-2-ethylhexyl ether is 1.55. Eastman EEH glycol ether is an 85/15 mixture of EG mono-2-ethylhexyl ether and DEG mono-2-ethylhexyl ether. Thus the MIR value is shown as ~ 1.55 for the commercial product.

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 use of our product(s) is safe, lawful, and technically suitable in their intended applications. Because of possible changes in the laws and regulations, as well as possible changes in our products, we cannot guarantee that the status of these products will remain unchanged. Therefore, we recommend that customers continuing to use these products verify their status periodically.

F — food pesticide use with limitations
NF — nonfood use only
Fr — fragrance use

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 2-ethylhexyl acetate
Eastman isobutyl acetate
Eastman IBIB
Eastman isopropyl acetate
Eastman methyl acetate-HP
Eastman MAK (methyl *n*-amyl ketone)
Eastman MIAK (methyl isoamyl ketone)
Eastman MPK (methyl *n*-propyl ketone)
Eastman PM acetate
Eastman propyl acetate
Eastman *n*-propyl propionate

^aWater content is 0.05% maximum.

Eastman solvents available in electronic grade

Eastman EastaPure™ electronic chemicals
EP solvent
PM acetate, stabilized
Acetic acid
n-Butyl acetate
MAK
PM acetate
DB solvent
Ethyl acetate
EB solvent

Eastman solvents

Eastman has two online solvent tools: the Solvent Comparison Tool and the 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 performance goals and/or targeted costs 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
 - A robust database that includes newer VOC-exempt solvents and biodegradability information
 - 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 as well as biodegradability information
 - Allows you to add any new solvent
 - Saves your blend history throughout each session and can be downloaded as a spreadsheet for easy comparison of multiple blends
 - Offers suggestions for solvent blend replacements

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





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