Attachment 1 - Proposed
TABLES OF MAXIMUM INCREMENTAL REACTIVITY (MIR) VALUES

[Note: The originally proposed Table of MIR values is shown in regular text. The modifications made available during the first 15-day comment period (from January 26, 2001 to February 13, 2001) are shown in underlined regular text to indicate additions and ~~strikeout~~ to indicate deletions. The supplemental modifications being made available during this second 15-day comment period are shown in **bold double-underline** to indicate additions, and **~~bold strikeout~~** to indicate deletions.]

Add new Title 17, California Code of Regulations, Article 1, Tables of Maximum Incremental Reactivity (MIR) Values, section 94700-94701, to read as follows:

SUBCHAPTER 8.6 MAXIMUM INCREMENTAL REACTIVITY

Article 1. Tables of Maximum Incremental Reactivity (MIR) Values

94700. MIR Values for Compounds.

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
Carbon Monoxide	0.06	*
Methane	0.01	*
Ethane	0.31	*
Propane	0.56	*
n-Butane	1.33	*
n-Pentane	1.54	*
n-Hexane	1.45	*
n-Heptane	1.28	*
n-Octane	1.11	*
n-Nonane	0.95	*
n-Decane	0.83	*
n-Undecane	0.74	*
n-Dodecane	0.66	*
n-Tridecane	0.62	*
n-Tetradecane	0.58	*
n-Pentadecane	0.56	*
n-C16	0.52	*
n-C17	0.49	*
n-C18	0.47	*
n-C19	0.44	*
n-C20	0.42	*
n-C21	0.40	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
n-C22	0.38	*
Isobutane	1.35	*
Isopentane	1.68	*
Neopentane	0.69	*
Branched C5 Alkanes	1.68	*
2,2-Dimethyl Butane	1.33	*
2,3-Dimethyl Butane	1.14	*
2-Methyl Pentane (Isohexane)	1.80	*
3-Methyl Pentane	2.07	*
Branched C6 Alkanes	1.53	*
2,2,3-Trimethyl Butane	1.32	*
2,2-Dimethyl Pentane	1.22	*
2,3-Dimethyl Pentane	1.55	*
2,4-Dimethyl Pentane	1.65	*
2-Methyl Hexane	1.37	*
3,3-Dimethyl Pentane	1.32	*
3-Methyl Hexane	1.86	*
Branched C7 Alkanes	1.63	*
2,2,3,3-Tetramethyl Butane	0.44	*
2,2,4-Trimethyl Pentane (Isooctane)	1.44	*
2,2-Dimethyl Hexane	1.13	*
2,3,4-Trimethyl Pentane	1.23	*
2,3-Dimethyl Hexane	1.34	*
2,4-Dimethyl Hexane	1.80	*
2,5-Dimethyl Hexane	1.68	*
2-Methyl Heptane	1.20	*
3-Methyl Heptane	1.35	*
4-Methyl Heptane	1.48	*
Branched C8 Alkanes	1.57	*
2,2,5-Trimethyl Hexane	1.33	*
2,3,5-Trimethyl Hexane	1.33	*
2,4-Dimethyl Heptane	1.48	*
2-Methyl Octane	0.96	*
3,3-Diethyl Pentane	1.35	*
3,5-Dimethyl Heptane	1.63	*
4-Ethyl Heptane	1.44	*
4-Methyl Octane	1.08	*
Branched C9 Alkanes	1.25	*
2,4-Dimethyl Octane	1.09	*
2,6-Dimethyl Octane	1.27	*
2-Methyl Nonane	0.86	*
3,4-Diethyl Hexane	1.20	*
3-Methyl Nonane	0.89	*
4-Methyl Nonane	0.99	*
4-Propyl Heptane	1.24	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
Branched C10 Alkanes	1.09	*
2,6-Dimethyl Nonane	0.95	*
3,5-Diethyl Heptane	1.21	*
3-Methyl Decane	0.77	*
4-Methyl Decane	0.80	*
Branched C11 Alkanes	0.87	*
2,3,4,6-Tetramethyl Heptane	1.26	
2,6-Diethyl Octane	1.09	*
3,6-Dimethyl Decane	0.88	*
3-Methyl Undecane	0.70	*
5-Methyl Undecane	0.72	*
Branched C12 Alkanes	0.80	*
2,3,5,7-Tetramethyl Octane	1.06	
3,6-Dimethyl Undecane	0.82	*
3,7-Diethyl Nonane	1.08	*
3-Methyl Dodecane	0.64	*
5-Methyl Dodecane	0.64	*
Branched C13 Alkanes	0.73	*
2,4,6,8-Tetramethyl Nonane	0.94	
2,3,6-Trimethyl 4-Isopropyl Heptane	1.24	
3,7-Dimethyl Dodecane	0.74	*
3,8-Diethyl Decane	0.68	*
3-Methyl Tridecane	0.57	*
6-Methyl Tridecane	0.62	*
Branched C14 Alkanes	0.67	*
2,4,5,6,8-Pentamethyl Nonane	1.11	
2-Methyl 3,5-Diisopropyl Heptane	0.78	
3,7-Dimethyl Tridecane	0.64	*
3,9-Diethyl Undecane	0.62	*
3-Methyl Tetradecane	0.53	*
6-Methyl Tetradecane	0.57	*
Branched C15 Alkanes	0.60	*
2,6,8-Trimethyl 4-Isopropyl Nonane	0.76	
3-Methyl Pentadecane	0.50	*
4,8-Dimethyl Tetradecane	0.58	*
7-Methyl Pentadecane	0.51	*
Branched C16 Alkanes	0.54	*
2,7-Dimethyl 3,5-Diisopropyl Heptane	0.69	
Branched C17 Alkanes	0.51	*
Branched C18 Alkanes	0.48	*
Cyclopropane	0.10	*
Cyclobutane	1.05	*
Cyclopentane	2.69	*
Cyclohexane	1.46	*
Isopropyl Cyclopropane	1.52	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
Methylcyclopentane	2.42	*
C6 Cycloalkanes	1.46	*
1,3-Dimethyl Cyclopentane	2.15	*
Cycloheptane	2.26	*
Ethyl Cyclopentane	2.27	*
Methylcyclohexane	1.99	*
C7 Cycloalkanes	1.99	*
1,3-Dimethyl Cyclohexane	1.72	*
Cyclooctane	1.73	*
Ethylcyclohexane	1.75	*
Propyl Cyclopentane	1.91	*
C8 Cycloalkanes	1.75	*
C9 Bicycloalkanes	1.57	*
1,1,3-Trimethyl Cyclohexane	1.37	*
1-Ethyl-4-Methyl Cyclohexane	1.62	*
Propyl Cyclohexane	1.47	*
C9 Cycloalkanes	1.55	*
C10 Bicycloalkanes	1.29	*
1,3-Diethyl Cyclohexane	1.34	*
1,4-Diethyl Cyclohexane	1.49	*
1-Methyl-3-Isopropyl Cyclohexane	1.26	*
Butyl Cyclohexane	1.07	*
C10 Cycloalkanes	1.27	*
C11 Bicycloalkanes	1.01	*
1,3-Diethyl-5-Methyl Cyclohexane	1.11	*
1-Ethyl-2-Propyl Cyclohexane	0.95	*
Pentyl Cyclohexane	0.91	*
C11 Cycloalkanes	0.99	*
C12 Bicycloalkanes	0.88	*
C12 Cycloalkanes	0.87	*
1,3,5-Triethyl Cyclohexane	1.06	*
1-Methyl-4-Pentyl Cyclohexane	0.81	*
Hexyl Cyclohexane	0.75	*
C13 Bicycloalkanes	0.79	*
1,3-Diethyl-5-Pentyl Cyclohexane	0.99	*
1-Methyl-2-Hexyl Cyclohexane	0.70	*
Heptyl Cyclohexane	0.66	*
C13 Cycloalkanes	0.78	*
C14 Bicycloalkanes	0.71	*
1,3-Dipropyl-5-Ethyl Cyclohexane	0.94	*
1-Methyl-4-Heptyl Cyclohexane	0.58	*
Octyl Cyclohexane	0.60	*
C14 Cycloalkanes	0.71	*
C15 Bicycloalkanes	0.69	*
1,3,5-Tripropyl Cyclohexane	0.90	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
1-Methyl-2-Octyl Cyclohexane	0.60	*
Nonyl Cyclohexane	0.54	*
C15 Cycloalkanes	0.68	*
1,3-Dipropyl-5-Butyl Cyclohexane	0.77	*
1-Methyl-4-Nonyl Cyclohexane	0.55	*
Decyl Cyclohexane	0.50	*
C16 Cycloalkanes	0.61	*
Ethene	9.08	*
Propene (Propylene)	11.58	*
1-Butene	10.29	*
C4 Terminal Alkenes	10.29	*
1-Pentene	7.79	*
3-Methyl-1-Butene	6.99	*
C5 Terminal Alkenes	7.79	*
1-Hexene	6.17	*
3,3-Dimethyl-1-Butene	6.06	*
3-Methyl-1-Pentene	6.22	*
4-Methyl-1-Pentene	6.26	*
C6 Terminal Alkenes	6.17	*
1-Heptene	4.56	*
1-Octene	3.45	*
C8 Terminal Alkenes	3.45	*
1-Nonene	2.76	*
C9 Terminal Alkenes	2.76	*
1-Decene	2.28	*
C10 Terminal Alkenes	2.28	*
1-Undecene	1.95	*
C11 Terminal Alkenes	1.95	*
C12 Terminal Alkenes	1.72	*
1-Dodecene	1.72	*
1-Tridecene	1.55	*
C13 Terminal Alkenes	1.55	*
1-Tetradecene	~~1.48~~ 1.41	*
C14 Terminal Alkenes	~~1.48~~ 1.41	*
1-Pentadecene	~~1.30~~ 1.37	*
C15 Terminal Alkenes	~~1.30~~ 1.37	*
2-Methyl Pentene (Isobutene)	6.35	*
2-Methyl-1-Butene	6.51	*
2,3-Dimethyl-1-Butene	4.77	*
2-Ethyl-1-Butene	5.04	*
2-Methyl-1-Pentene	5.18	*
2,3,3-Trimethyl-1-Butene	4.62	*
C7 Terminal Alkenes	4.56	*
3-Methyl-2-Isopropyl-1-Butene	3.29	*
cis-2-Butene	13.22	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
trans-2-Butene	13.91	*
C4 Internal Alkenes	13.57	*
2-Methyl-2-Butene	14.45	*
cis-2-Pentene	10.24	*
trans-2-Pentene	10.23	*
2-Pentenes	10.23	*
C5 Internal Alkenes	10.23	*
2,3-Dimethyl-2-Butene	13.32	*
2-Methyl-2-Pentene	12.28	*
Cis-2-Hexene	8.44	*
Cis-3-Hexene	8.22	*
Cis-3-Methyl-2-Hexene	13.38	*
Trans 3-Methyl-2-Hexene	14.17	*
Trans 4-Methyl-2-Hexene	7.88	*
Trans-2-Hexene	8.44	*
Trans-3-Hexene	8.16	*
2-Hexenes	8.44	*
C6 Internal Alkenes	8.44	*
2,3-Dimethyl-2-Hexene	10.41	*
Cis-3-Heptene	6.96	*
Trans-4,4-Dimethyl-2-Pentene	6.99	*
Trans-2-Heptene	7.33	*
Trans-3-Heptene	6.96	*
2-Heptenes	6.96	*
C7 Internal Alkenes	6.96	*
Cis-4-Octene	5.94	*
Trans-2,2-Dimethyl-3-Hexene	5.97	*
Trans-2,5-Dimethyl-3-Hexene	5.44	*
Trans-3-Octene	6.13	*
Trans-4-Octene	5.90	*
3-Octenes	6.13	*
C8 Internal Alkenes	5.90	*
2,4,4-Trimethyl-2-Pentene	5.85	*
3-Nonenes	5.31	*
C9 Internal Alkenes	5.31	*
Trans-4-Nonene	5.23	*
3,4-Diethyl-2-Hexene	3.95	*
Cis-5-Decene	4.89	*
Trans-4-Decene	4.50	*
C10 3-Alkenes	4.50	*
C10 Internal Alkenes	4.50	*
Trans-5-Undecene	4.23	*
C11 3-Alkenes	4.23	*
C11 Internal Alkenes	4.23	*
C12 2-Alkenes	3.75	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
C12 3-Alkenes	3.75	*
C12 Internal Alkenes	3.75	*
Trans-5-Dodecene	3.74	*
Trans-5-Tridecene	3.38	*
C13 3-Alkenes	3.38	*
C13 Internal Alkenes	3.38	*
Trans-5-Tetradecene	3.08	*
C14 3-Alkenes	3.08	*
C14 Internal Alkenes	3.08	*
Trans-5-Pentadecene	2.82	*
C15 3-Alkenes	2.82	*
C15 Internal Alkenes	2.82	*
C4 Alkenes	11.93	*
C5 Alkenes	9.01	*
C6 Alkenes	6.88	*
C7 Alkenes	5.76	*
C8 Alkenes	4.68	*
C9 Alkenes	4.03	*
C10 Alkenes	3.39	*
C11 Alkenes	3.09	*
C12 Alkenes	2.73	*
C13 Alkenes	2.46	*
C14 Alkenes	2.28	*
C15 Alkenes	2.06	*
Cyclopentene	7.38	*
1-Methyl Cyclopentene	13.95	*
Cyclohexene	5.45	*
1-Methyl Cyclohexene	7.81	*
4-Methyl Cyclohexene	4.48	*
1,2-Dimethyl Cyclohexene	6.77	*
1,3-Butadiene	13.58	*
Isoprene	10.69	*
C6 Cyclic or Di-olefins	8.65	*
C7 Cyclic or Di-olefins	7.49	*
C8 Cyclic or Di-olefins	6.01	*
C9 Cyclic or Di-olefins	5.40	*
C10 Cyclic or Di-olefins	4.56	*
C11 Cyclic or Di-olefins	4.29	*
C12 Cyclic or Di-olefins	3.79	*
C13 Cyclic or Di-olefins	3.42	*
C14 Cyclic or Di-olefins	3.11	*
C15 Cyclic or Di-olefins	2.85	*
Cyclopentadiene	7.61	*
3-Carene	3.21	*
a-Pinene (Pine Oil)	4.29	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
b-Pinene	3.28	*
d-Limonene (Dipentene or Orange Terpene)	3.99	*
Sabinene	3.67	*
Terpene	3.79	*
Styrene	1.95	*
a-Methyl Styrene	1.72	*
C9 Styrenes	1.72	*
C10 Styrenes	1.53	*
Benzene	0.81	*
Toluene	3.97	*
Ethyl Benzene	2.79	*
Cumene (Isopropyl Benzene)	2.32	*
n-Propyl Benzene	2.20	*
C9 Monosubstituted Benzenes	2.20	*
s-Butyl Benzene	1.97	*
C10 Monosubstituted Benzenes	1.97	*
n-Butyl Benzene	1.97	*
C11 Monosubstituted Benzenes	1.78	*
C12 Monosubstituted Benzenes	1.63	*
C13 Monosubstituted Benzenes	1.50	*
m-Xylene	10.61	*
o-Xylene	7.49	*
p-Xylene	4.25	*
C8 Disubstituted Benzenes	~~5.16~~ 7.48	*
C9 Disubstituted Benzenes	6.61	*
C10 Disubstituted Benzenes	5.92	*
C11 Disubstituted Benzenes	5.35	*
C12 Disubstituted Benzenes	4.90	*
C13 Disubstituted Benzenes	4.50	*
Isomers of Ethylbenzene	5.16	*
1,2,3-Trimethyl Benzene	11.26	*
1,2,4-Trimethyl Benzene	7.18	*
1,3,5-Trimethyl Benzene	11.22	*
C9 Trisubstituted Benzenes	9.90	*
Isomers of Propylbenzene	6.12	*
C10 Tetrasubstituted Benzenes	8.86	*
C10 Trisubstituted Benzenes	8.86	*
Isomers of Butylbenzene	5.48	*
C11 Pentasubstituted Benzenes	8.03	*
C11 Tetrasubstituted Benzenes	8.03	*
C11 Trisubstituted Benzenes	8.03	*
Isomers of Pentylbenzene	4.96	*
C12 Pentasubstituted Benzenes	7.33	*
C12 Hexasubstituted Benzenes	7.33	*
C12 Tetrasubstituted Benzenes	7.33	*

Organic Compound	**MIR Value [Effective Date*]**	**~~Effective Date~~**
C12 Trisubstituted Benzenes	7.33	*
Isomers of Hexylbenzene	4.53	*
C13 Trisubstituted Benzenes	6.75	*
Indane	3.17	*
Naphthalene	3.26	*
Tetralin	2.83	*
Methyl Naphthalenes	4.61	*
1-Methyl Naphthalene	4.61	*
2-Methyl Naphthalene	4.61	*
C11 Tetralin or Indane	2.56	*
2,3-Dimethyl Naphthalene	5.54	*
C12 Disubstituted Naphthalenes	5.54	*
Dimethyl Naphthalenes	5.54	*
C12 Monosubstituted Naphthalenes	4.20	*
C13 Disubstituted Naphthalenes	5.08	*
C13 Trisubstituted Naphthalenes	5.08	*
C13 Monosubstituted Naphthalenes	3.86	*
Acetylene	1.25	*
Methyl Acetylene	6.45	*
2-Butyne	16.33	*
Ethyl Acetylene	6.20	*
Methanol	0.71	*
Ethanol	1.69	*
Isopropanol (2-Propanol or Isopropyl Alcohol)	0.71	*
N-Propanol (n-Propyl Alcohol)	2.74	*
Isobutanol (Isobutyl Alcohol)	2.24	*
1-Butanol (n-Butyl Alcohol)	3.34	*
2-Butanol (s-Butyl Alcohol)	1.60	*
t-Butyl Alcohol	0.45	*
Cyclopentanol	1.96	*
2-Pentanol	1.74	*
3-Pentanol	1.73	*
N-Pentanol (Amyl Alcohol)	3.35	*
Cyclohexanol	2.25	*
1-Hexanol	2.74	*
2-Hexanol	2.46	*
1-Heptanol	2.21	*
1-Octanol	2.01	*
2-Ethyl-1-Hexanol (Ethyl Hexyl Alcohol)	2.20	*
2-Octanol	2.16	*
3-Octanol	2.57	*
4-Octanol	3.07	*
Isodecyl Alcohol ~~**(8-Methyl-1-Nonanol)**~~	~~1.18~~ 1.23	*
Ethylene Glycol	3.36	*
Propylene Glycol	2.75	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
1,2-Butanediol	2.21	*
Glycerol (1,2,3-Propanetriol)	3.27	*
1,2-Dihydroxy Hexane	2.75	*
2-Methyl-2,4-Pentanediol	1.04	*
Dimethyl Ether	0.93	*
Trimethylene Oxide	5.22	*
Dimethoxymethane	1.04	*
Tetrahydrofuran	4.95	*
Diethyl Ether	4.01	*
Alpha-Methyltetrahydrofuran	4.62	*
Tetrahydropyran	3.81	*
Ethyl Isopropyl Ether	3.86	*
Methyl n-Butyl Ether	3.66	*
Methyl t-Butyl Ether	0.78	*
2,2-Dimethoxypropane	~~11.52~~ 0.52	*
Di n-Propyl Ether	3.24	*
Ethyl n-Butyl Ether	3.86	*
Ethyl t-Butyl Ether	2.11	*
Methyl t-Amyl Ether	2.14	*
2-Butyl Tetrahydrofuran	2.53	*
Di-Isobutyl Ether	1.29	*
Di-n-butyl Ether	3.17	*
Di-n-Pentyl Ether	2.64	*
Ethylene Glycol Monomethyl Ether (2-Methoxyethanol)	2.98	*
Propylene Glycol Monomethyl Ether (1-Methoxy-2-Propanol)	2.62	*
2-Ethoxyethanol	3.78	*
2-Methoxy-1-Propanol	3.01	*
Diethylene Glycol	3.55	*
Propylene Glycol Monoethyl Ether (1-Ethoxy-2-Propanol)	3.25	*
Ethylene Glycol Monopropyl Ether (2-Propoxyethanol)	3.52	*
3-Ethoxy-1-Propanol	4.24	*
3-Methoxy-1-Butanol	0.97	*
Diethylene Glycol Methyl Ether [2-(2-Methoxyethoxy) Ethanol]	2.90	*
Propylene Glycol Monopropyl Ether (1-Propoxy-2-Propanol)	2.86	*
Ethylene Glycol Monobutyl Ether [2-Butoxyethanol]	2.90	*
3-Methoxy-3-Methyl-Butanol	1.74	*
2-(2-Ethoxyethoxy) Ethanol	3.19	*
Dipropylene Glycol	2.48	*
Propylene Glycol t-Butyl Ether (1-tert-Butoxy-2-Propanol)	1.71	*
2-tert-Butoxy-1-Propanol	1.81	*
n-Butoxy-2-Propanol	2.70	*
Dipropylene Glycol Methyl Ether Isomer (1-Methoxy-2-[2-Hydroxypropoxy]-Propane)	2.21	*
Dipropylene Glycol Methyl Ether Isomer (2-[2-Methoxypropoxy]-1- Propanol)	3.02	

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
2-Hexyloxyethanol	**2.45**	
2-(2-Propoxyethoxy) Ethanol	**3.00**	
2,2,4-Trimethyl-1,3-Pentanediol	1.74	
2-(2-Butoxyethoxy)-Ethanol	2.70	*
2-[2-(2-Methoxyethoxy) Ethoxy] Ethanol	**2.62**	
Ethylene Glycol 2-Ethylhexyl Ether [2-(2-Ethylhexyloxy) Ethanol]	~~**8.26**~~ **1.71**	*
2-[2-(2-Ethoxyethoxy) Ethoxy] Ethanol	**2.66**	
2-(2-Hexyloxyethoxy) Ethanol	**2.03**	
2-[2-(2-Propoxyethoxy) Ethoxy] Ethanol	**2.46**	
2-[2-(2-Butoxyethoxy) Ethoxy] Ethanol	**2.24**	
Tripropylene Glycol Monomethyl Ether	1.90	*
2,5,8,11-Tetraoxatridecan-13-ol	**2.15**	
3,6,9,12-Tetraoxahexadecan-1-ol	**1.90**	
Cumene Hydroperoxide (1-Methyl-1-Phenylethylhydroperoxide)**	12.61	*
Methyl Formate	~~0.07~~ 0.06	*
Ethyl Formate	0.52	*
Methyl Acetate	0.07	*
Ethyl Acetate	0.64	*
Methyl Propionate	0.71	*
n-Propyl Formate	0.93	*
Ethyl Propionate	0.79	*
Isopropyl Acetate	~~1.24~~ 1.12	*
Methyl Butyrate	1.18	*
Methyl Isobutyrate	0.70	*
n-Butyl Formate	0.95	*
Propyl Acetate	0.87	*
Ethyl Butyrate	1.25	*
Isobutyl Acetate	0.67	*
Methyl Pivalate (2,2-Dimethyl Propanoic Acid Methyl Ester)	~~0.41~~ 0.39	*
n-Butyl Acetate	0.89	*
n-Propyl Propionate	0.93	*
s-Butyl Acetate	1.43	*
t-Butyl Acetate	~~0.22~~ 0.20	*
Butyl Propionate	0.89	*
Amyl Acetate	0.96	*
n-Propyl Butyrate	1.17	*
EEP Solvent (Ethyl 3-Ethoxy Propionate)	3.61	*
2,3-Dimethylbutyl Acetate	0.84	*
2-Methylpentyl Acetate	1.11	*
3-Methylpentyl Acetate	1.31	*
4-Methylpentyl Acetate	0.92	*
Isobutyl Isobutyrate	~~0.64~~ 0.61	*
n-Butyl Butyrate	1.12	*
n-Hexyl Acetate (Hexyl Acetate)	0.87	*
2,4-Dimethylpentyl Acetate	0.98	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
2-Methylhexyl Acetate	0.89	*
3-Ethylpentyl Acetate	1.24	*
3-Methylhexyl Acetate	1.01	*
4-Methylhexyl Acetate	0.91	*
5-Methylhexyl Acetate	0.79	*
Isoamyl Isobutyrate	0.89	*
n-Heptyl Acetate (Heptyl Acetate)	0.73	*
2,4-Dimethylhexyl Acetate	0.93	*
2-Ethyl-Hexyl Acetate	0.79	*
3,4-Dimethylhexyl Acetate	1.16	*
3,5-Dimethylhexyl Acetate	1.09	*
3-Ethylhexyl Acetate	1.03	*
3-Methylheptyl Aceate	0.76	*
4,5-Dimethylhexyl Acetate	0.86	*
4-Methylheptyl Acetate	0.72	*
5-Methylheptyl Acetate	0.73	*
n-Octyl Acetate	0.64	*
2,3,5-Trimethylhexyl Acetate	0.86	*
2,3-Dimethylheptyl Acetate	0.84	*
2,4-Dimethylheptyl Acetate	0.88	*
2,5-Dimethylheptyl Acetate	0.86	*
2-Methyloctyl Acetate	0.63	*
3,5-Dimethylheptyl Acetate	1.01	*
3,6-Dimethylheptyl Acetate	0.87	*
3-Ethylheptyl Acetate	0.71	*
4,5-Dimethylheptyl Acetate	0.96	*
4,6-Dimethylheptyl Acetate	0.83	*
4-Methyloctyl Acetate	0.68	*
5-Methyloctyl Acetate	0.67	*
n-Nonyl Acetate	0.58	*
3,6-Dimethyloctyl Acetate	0.88	*
3-Isopropylheptyl Acetate	0.71	*
4,6-Dimethyloctyl Acetate	0.85	*
3,5,7-Trimethyloctyl Acetate	0.83	*
3-Ethyl-6-Methyloctyl Acetate	0.80	*
4,7-Dimethylnonyl Acetate	0.64	*
2,3,5,7-Tetramethyloctyl Acetate	0.74	*
3,5,7-Trimethylnonyl Acetate	0.76	*
3,6,8-Trimethylnonyl Acetate	0.72	*
2,4,6,8-Tetramethylnonyl Acetate	0.63	*
3-Ethyl-6,7-Dimethylnonyl Acetate	0.76	*
4,7,9-Trimethyldecyl Acetate	0.55	*
2,3,5,6,8-Pentaamethylnonyl Acetate	0.74	*
3,5,7,9-Tetramethyldecyl Acetate	0.58	*
5-Ethyl-3,6,8-Trimethylnonyl Acetate	0.77	*

Organic Compound	**MIR Value [Effective Date*]**	**~~Effective Date~~**
Dimethyl Carbonate	0.06	*
Propylene Carbonate (4-Methyl-1,3-Dioxolan-2-one)	0.25	*
Methyl Lactate	2.75	*
2-Methoxyethyl Acetate	1.18	*
Ethyl Lactate	2.71	*
Methyl Isopropyl Carbonate	0.69	*
Propylene Glycol Monomethyl Ether Acetate (1-Methoxy-2-Propyl Acetate)	1.71	*
2-Ethoxyethyl Acetate	1.90	*
2-Methoxy-1-Propyl Acetate	1.12	*
Dimethyl Succinate	~~0.25~~ 0.23	*
Ethylene Glycol Diacetate	0.72	*
Diisopropyl Carbonate	1.04	*
Dimethyl Glutarate	~~0.49~~ 0.51	*
Ethylene Glycol Monobutyl Ether Acetate (2-Butoxyethyl Acetate)	1.67	*
Dimethyl Adipate	1.95	*
2-(2-Ethoxyethoxy) Ethyl Acetate	**1.50**	
2-(2-Butoxyethoxy) Ethyl Acetate	**1.38**	
Substituted C7 Ester (C12)	0.92	*
1-Hydroxy-2,2,4-Trimethylpentyl-3-Isobutyrate	0.92	*
3-Hydroxy-2,2,4-Trimethylpentyl-1-Isobutyrate	0.88	*
3-Hydroxy-2,2,4-Trimethylpentyl –**1-**Isobutyrate Isomers **(2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate)**	0.89	*
Substituted C9 Ester (C12)	0.89	*
Dimethyl Sebacate	0.48	
Ethylene Oxide	0.05	*
Propylene Oxide	0.32	*
1,2-Epoxybutane (Ethyl Oxirane)	1.02	*
Formic Acid	0.08	*
Acetic Acid	0.71	*
Glycolic Acid (Hydroxyacetic Acid)	~~12.62~~ 2.67	*
Peracetic Acid (Peroxyacetic Acid)**	12.62	*
Acrylic Acid	11.66	*
Propionic Acid	1.16	*
Methacrylic Acid	~~22.30~~ 18.78	*
2-Ethyl Hexanoic Acid	4.41	
Methyl Acrylate	12.24	*
Vinyl Acetate	3.26	*
2-Methyl-2-Butene-3-ol (1,2-Dimethylpropyl-1-en-1-ol)	~~4.10~~ 5.12	*
Ethyl Acrylate	8.78	*
Methyl Methacrylate	15.84	*
Butyl Methacrylate	9.09	*
Isobutyl Methacrylate	8.99	*
Isobornyl Methacrylate**	8.64	
2-Ethyl-Hexyl Acrylate	2.42	
Furan	16.54	*

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
Formaldehyde	8.97	*
Acetaldehyde	6.84	*
Propionaldehyde	7.89	*
2-Methylpropanal	5.87	*
Butanal	6.74	*
C4 Aldehydes	6.74	*
2,2-Dimethylpropanal (Pivaldehyde)	5.40	*
3-Methylbutanal (Isovaleraldehyde)	5.52	*
Pentanal (Valeraldehyde)	5.76	*
C5 Aldehydes	5.76	*
Glutaraldehyde	4.79	*
Hexanal	4.98	*
C6 Aldehydes	4.98	*
Heptanal	4.23	*
C7 Aldehydes	4.23	*
Octanal	3.65	*
C8 Aldehydes	3.65	*
Glyoxal	14.22	*
Methyl Glyoxal	16.21	*
Acrolein	7.60	*
Crotonaldehyde	10.07	*
Methacrolein	6.23	*
Hydroxy Methacrolein	6.61	*
Benzaldehyde	0.00	*
Tolualdehyde	0.00	*
Acetone	0.43	*
Cyclobutanone	0.68	*
Methyl Ethyl Ketone (2-Butanone)	1.49	*
Cyclopentanone	1.43	*
C5 Cyclic Ketones	1.43	*
Methyl Propyl Ketone (2-Pentanone)	3.07	*
3-Pentanone	1.45	*
C5 Ketones	3.07	*
Cyclohexanone	1.61	*
C6 Cyclic Ketones	1.61	*
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	4.31	*
Methyl n-Butyl Ketone (2-Hexanone)	3.55	*
Methyl t-Butyl Ketone	0.78	*
C6 Ketones	3.55	*
C7 Cyclic Ketones	1.41	*
Methyl Amyl Ketone (2-Heptanone)	2.80	*
2-Methyl-3-Hexanone	1.79	*
Di-Isopropyl Ketone	1.63	*
C7 Ketones	2.80	*
3-Methyl-2-Hexanone	2.81	

Organic Compound	MIR Value [Effective Date*]	~~Effective Date~~
Methyl Isoamyl Ketone (5-Methyl-2-Hexanone)	2.10	
C8 Cyclic Ketones	1.25	*
2-Octanone	1.66	*
C8 Ketones	1.66	*
C9 Cyclic Ketones	1.13	*
2-Nonanone	1.30	*
Di-Isobutyl Ketone (2,6-Dimethyl-4-Heptanone)	2.94	*
C9 Ketones	1.30	*
C10 Cyclic Ketones	1.02	*
2-Decanone	1.06	*
C10 Ketones	1.06	*
Biacetyl	20.73	*
Methylvinyl Ketone	8.73	*
Hydroxy Acetone	3.08	*
Methoxy Acetone	2.14	*
Diacetone Alcohol (4-Hydroxy-4-Methyl-2-Pentanone)	0.68	*
Phenol	1.82	*
Alkyl Phenols	2.34	*
m-Cresol	2.34	*
p-Cresol	2.34	*
o-Cresol	2.34	*
1-Phenoxy-2-Propanol	**1.73**	
Nitrobenzene	0.07	*
Para Toluene Isocyanate	0.93	*
Toluene Diisocyanate	0.00	*
Methylene Diphenylene Diisocyanate	0.79	*
N-Methyl Acetamide**	19.70	*
Dimethyl Amine	9.37	*
Ethyl Amine	7.80	*
Trimethyl Amine	7.06	*
Triethyl Amine**	16.60	
Diethylenetriamine**	13.03	
Ethanolamine	5.97	*
Dimethylaminoethanol	4.76	*
Monoisopropanol Amine (1-Amino-2-Propanol)**	~~19.17~~ 13.42	*
2-Amino-2-Methyl-1-Propanol**	15.08	
Diethanol Amine	4.05	*
Triethanolamine	2.76	*
Methyl Pyrrolidone (N-Methyl-2-Pyrrolidone)	2.56	*
Morpholine**	15.43	*
Nitroethane**	12.79	*
Nitromethane**	7.86	*
1-Nitropropane**	16.16	
2-Nitropropane**	16.16	
Dexpanthenol (Pantothenylol)**	9.35	*

Organic Compound	**MIR Value [Effective Date*]**	**~~Effective Date~~**
Methyl Ethyl Ketoxime (Ethyl Methyl Ketone Oxime)**	~~15.43~~ 22.04	*
Hydroxyethylethylene Urea**	14.75	*
Methyl Chloride	0.03	*
Methylene Chloride (Dichloromethane)	0.07	*
Methyl Bromide	0.02	*
Chloroform	0.03	*
Vinyl Chloride	2.92	*
Ethyl Chloride	0.25	*
1,1-Dichloroethane	0.10	*
1,2-Dichloroethane	0.10	*
Ethyl Bromide	0.11	*
1,1,1-Trichloroethane	0.00	*
1,1,2-Trichloroethane	0.06	*
1,2-Dibromoethane	0.05	*
n-Propyl Bromide	0.35	*
n-Butyl Bromide	0.60	*
Trans-1,2-Dichloroethene	0.81	*
Trichloroethylene	0.60	*
Perchloroethylene	0.04	*
2-(Chloro-Methyl)-3-Chloro Propene	1.13	*
Monochlorobenzene	0.36	*
p-Dichlorobenzene	0.20	*
Benzotrifluoride	0.26	*
PCBTF (p-Trifluoromethyl-Cl-Benzene)	0.11	*
HFC-134a (1,1,1,2-Tetrafluoroethane)**	0.00	*
HFC-152a (1,1-Difluoroethane)**	0.00	*
Dimethyl Sulfoxide	6.90	
Base ROG Mixture	3.71	*
Alkane, Mixed – Predominantly (minimally 94%) C13-14	**0.67**	
Oxo-Hexyl Acetate	1.03	*
Oxo-Heptyl Acetate	0.97	*
Oxo-Octyl Acetate	0.96	*
Oxo-Nonyl Acetate	0.85	*
Oxo-Decyl Acetate	0.83	*
Oxo-Dodecyl Acetate	0.72	*
Oxo-Tridecyl Acetate	0.67	*

*30 Days after the Regulation is approved by the Office of Administrative Law.
**ULMIR