

Environmental Protection Agency

Pt. 59, Subpt. E, Table 2B

Compound	CAS No.	Reactivity factor
Dimethyl Ether	115-10-6	0.93
Triethylamine	121-44-8	16.60
2-Phenoxyethanol; Ethylene Glycol Phenyl Ether	122-99-6	3.61
Diacetone Alcohol	123-42-2	0.68
2,4-Pentanedione	123-54-6	1.02
Butanal	123-72-8	6.74
Butyl Acetate, n	123-86-4	0.89
2-(2-Butoxyethoxy) Ethyl Acetate	124-17-4	1.38
2-Amino-2-Methyl-1-Propanol	124-68-5	15.08
Perchloroethylene	127-18-4	0.04
Ethanolamine	141-43-5	5.97
Ethyl acetate	141-78-6	0.64
Heptane	142-82-5	1.28
n-Hexyl Acetate (Hexyl Acetate)	142-92-7	0.87
2-Ethyl Hexanoic Acid	149-57-5	4.41
1,2,3-Trimethyl Benzene	526-73-8	11.26
t-Butyl Acetate	540-88-5	0.20
Methyl Isobutyrate	547-63-7	0.70
Methyl Lactate	547-64-8	2.75
Methyl Propionate	554-12-1	0.71
1,2 Butanediol	584-03-2	2.21
n-Butyl Propionate	590-01-2	0.89
Methyl n-Butyl Ketone (2-Hexanone)	591-78-6	3.55
Ethyl Isopropyl Ether	625-54-7	3.86
Dimethyl Adipate	627-93-0	1.95
Methyl n-Butyl Ether	628-28-4	3.66
Amyl Acetate (Pentyl Ethanoate, Pentyl Acetate)	628-63-7	0.96
Ethyl n-Butyl Ether	628-81-9	3.86
Ethyl t-Butyl Ether	637-92-3	2.11
1,3-Dioxolane	646-06-0	5.47
Ethyl-3-Ethoxypropionate	763-69-9	3.61
Methyl Pyrrolidone (n-Methyl-2-Pyrrolidone)	872-50-4	2.56
Dimethyl Gluterate	1119-40-0	0.51
C8 Disubstituted Benzenes (xylenes, mixed isomers)	1330-20-7	7.48
Ethylene Glycol 2-Ethylhexyl Ether [2-(2-Ethylhexyloxy) Ethanol]	1559-35-9	1.71
Propylene Glycol Monopropyl Ether (1-Propoxy-2-Propanol)	1569-01-3	2.86
Propylene Glycol Monoethyl Ether (1-Ethoxy-2-Propanol)	1569-02-4	3.25
2-Methoxy-1-Propanol	1589-47-5	3.01
Methyl t-Butyl Ether	1634-04-4	0.78
Ethylcyclohexane	1678-91-7	1.75
Isoamyl Isobutyrate	2050-01-3	0.89
2-Propoxyethanol (Ethylene Glycol Monopropyl Ether)	2807-30-9	3.52
n-Butoxy-2-Propanol	5131-66-8	2.70
d-Limonene (Dipentene or Orange Terpene)	5989-27-5	3.99
Dipropylene Glycol Methyl Ether Isomer (2-[2Methoxypropoxy]-1-Propanol)	13588-28-8	3.02
C9 Styrenes (Vinyl Toluene, mixed isomers)	25013-15-4	1.72
Texanol (1,3 Pentanediol, 2,2,4-Trimethyl, 1-Isobutyrate)	25265-77-4	0.89
Isodecyl Alcohol (8-Methyl-1-Nonanol)	25339-17-7	1.23
Tripropylene Glycol Monomethyl Ether	25498-49-1	1.90
Glycol Ether DPNB (1-(2-Butoxy-1-Methylethoxy) 2-Propanol)	29911-28-2	1.96
Propylene Glycol t-Butyl Ether (1-tert-Butoxy-2-Propanol)	57018-52-7	1.71
2-Methoxy-1-Propyl Acetate	70657-70-4	1.12
Oxo-Heptyl Acetate	90438-79-2	0.97
2-tert-Butoxy-1-Propanol	94023-15-1	1.81
Oxo-Octyl Acetate	108419-32-5	0.96

[74 FR 29604, June 23, 2009]

TABLE 2B TO SUBPART E OF PART 59—REACTIVITY FACTORS FOR ALIPHATIC HYDROCARBON SOLVENT MIXTURES

Bin	Average boiling point* (degrees F)	Criteria	Reactivity factor
1	80-205	Alkanes (< 2% Aromatics)	2.08
2	80-205	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	1.59
3	80-205	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	2.52
4	80-205	Alkanes (2 to < 8% Aromatics)	2.24
5	80-205	Alkanes (8 to 22% Aromatics)	2.56
6	>205-340	Alkanes (< 2% Aromatics)	1.41
7	>205-340	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	1.17

Bin	Average boiling point* (degrees F)	Criteria	Reactivity factor
8	>205–340	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	1.65
9	>205–340	Alkanes (2 to < 8% Aromatics)	1.62
10	>205–340	Alkanes (8 to 22% Aromatics)	2.03
11	>340–460	Alkanes (< 2% Aromatics)	0.91
12	>340–460	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	0.81
13	>340–460	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	1.01
14	>340–460	Alkanes (2 to < 8% Aromatics)	1.21
15	>340–460	Alkanes (8 to 22% Aromatics)	1.82
16	>460–580	Alkanes (< 2% Aromatics)	0.57
17	>460–580	N- & Iso-Alkanes (≥ 90% and < 2% Aromatics)	0.51
18	>460–580	Cyclo-Alkanes (≥ 90% and < 2% Aromatics)	0.63
19	>460–580	Alkanes (2 to < 8% Aromatics)	0.88
20	>460–580	Alkanes (8 to 22% Aromatics)	1.49

* Average Boiling Point = (Initial Boiling Point + Dry Point) / 2 (b) Aromatic Hydrocarbon Solvents

TABLE 2C TO SUBPART E OF PART 59—REACTIVITY FACTORS FOR AROMATIC HYDROCARBON SOLVENT MIXTURES

Bin	Boiling range (degrees F)	Criteria	Reactivity factor
21	280–290	Aromatic Content (≥98%)	7.37
22	320–350	Aromatic Content (≥98%)	7.51
23	355–420	Aromatic Content (≥98%)	8.07
24	450–535	Aromatic Content (≥98%)	5.00

Subpart F—Control of Evaporative Emissions From New and In-Use Portable Fuel Containers

SOURCE: 72 FR 8533, Feb. 26, 2007, unless otherwise noted.

OVERVIEW AND APPLICABILITY

§ 59.600 Does this subpart apply for my products?

(a) Except as provided in § 59.605 and paragraph (b) of this section, the regulations in this subpart F apply for all portable fuel containers (defined in § 59.680) that are manufactured on or after January 1, 2009.

(b) See § 59.602 (a) and (b) to determine how to apply the provisions of this subpart for containers that were manufactured before January 1, 2009.

§ 59.601 Do the requirements of this subpart apply to me?

(a) Unless specified otherwise in this subpart, the requirements and prohibitions of this subpart apply to all manufacturers and importers of portable fuel containers. Certain prohibitions in § 59.602 apply to all other persons.

(b) New portable fuel containers that are subject to the emissions standards of this part must be covered by a cer-

tificate of conformity that is issued to the manufacturer of the container. If more than one person meets the definition of manufacturer for a portable fuel container, see § 59.621 to determine if you are the manufacturer who may apply for and receive a certificate of conformity.

(c) Unless specifically noted otherwise, the term “you” means manufacturers, as defined in § 59.680.

§ 59.602 What are the general prohibitions and requirements of this subpart?

(a) *General prohibition for manufacturers and importers.* No manufacturer or importer may sell, offer for sale, introduce or deliver for introduction into commerce in the United States, or import any new portable fuel container that is subject to the emissions standards of this subpart and is manufactured after December 31, 2008 unless it is covered by a valid certificate of conformity, it is labeled as required, and it complies with all of the applicable requirements of this subpart, including compliance with the emissions standards for its useful life. After June 30, 2009, no manufacturer or importer may sell, offer for sale, introduce or deliver into commerce in the United States, or