

**Table 6-2. Summary of noncancer inhalation toxicity values (mg/m3)**

Fractions		TPHCWG (1997c) <sup>a</sup>		MA DEP (2003) <sup>b</sup>		USEPA PPRTV (2009a) <sup>c</sup>		TCEQ PCL (2010) <sup>d</sup>		
Primary	Secondary	RfC <sup>f</sup> mg/m <sup>3</sup>	Surrogate (s) or Component (c)	RfC mg/m <sup>3</sup>	Surrogate (s) or Component (c)	RfC mg/m <sup>3</sup>	Surrogate (s) or Component (c)	Fraction	RfC mg/m <sup>3</sup>	Surrogate (s) or Component (c)
Aliphatics	Low Carbon Range (C5-C8; EC5-EC8)	18.4	(s) Commercial hexane, where n-hexane is <53%	0.2	(s) n-hexane	0.7	(s) n-hexane if present at >53% of fraction	C>6-C8	0.67	(s) n-hexane if present at >53% of fraction
						0.6	(s) Commercial hexane if n-hexane present at ≤53%		18.4	(s) commercial hexane if n-hexane present at <53%
	Medium Carbon Range (C9-C18; EC>8-EC16)	1.0	(s) Mid-range aliphatic hydrocarbon streams	0.2	(s) Mid-range aliphatic hydrocarbon streams	0.1	(s) Mid-range aliphatic hydrocarbon	C>8-C16	0.5	(s) dearomatized white spirits
	High Carbon Range (C19-C32; EC>16-EC35)	Nab	(s) White mineral oil	NA	(s) White mineral oil	NA	(s) White mineral oil	C>16-C35	NA	NA
Aromatics	Low Carbon Range (C6-C8; EC6-EC<9)	0.4	(s) Toluene	NA	(c) benzene	0.03	(c) benzene	C>7-C8	1.9	(s) ethylbenzene
				0.4	(c) toluene	5	(c) toluene			
				1	(c) ethylbenzene	1	(c) ethylbenzene			
				NA	(c) xylenes	0.1	(c) xylenes			
	Medium Carbon Range (C9-C16; EC9-EC<22)	0.2	(s) C9 mixture (high-flash aromatic naphtha)	0.05	(s) C9 mixture (high-flash aromatic naphtha), with (c) naphthalene and 2-methylnaphthalene	0.1	(s) High-flash aromatic naphtha	C>8-C16	0.2	(s) high flash aromatic naphtha and multiple aromatic compounds
						0.003	(c) Naphthalene			
	High Carbon Range (C17-C32; EC22-EC35)	NA	Not volatile	NA	NA - not volatile	NA	NA - not volatile	C>16-C35	NA	NA

NA = not available

<sup>a</sup> Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG) used the middle carbon range C>8-C16 (rather than EC>8-EC16), which corresponds to EC9-EC<22 and the high carbon range C>16-C35.

<sup>b</sup> Massachusetts Department of Environmental Protection (MA DEP) divided the aromatic the aromatic medium carbon range into C9-C18 and the aromatic high carbon range into C19-C32.

<sup>c</sup> United States Environmental Protection Agency (USEPA) Provisional Peer-Reviewed Toxicity Values (PPRTV) for Complex Mixtures of Aliphatic and Aromatic Hydrocarbons (2009a).

<sup>d</sup> Texas Commission on Environmental Quality (TCEQ)'s Protective Concentration Levels (PCLs) used the medium carbon range of C>8-C16 and the high carbon range of C>16-C35.

<sup>f</sup> Reference Concentration