

Table 3 Water quality items and limits of discharge from the petrochemical industry

Item		Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
		Lower than 35°C (for October to next April)	
	Direct discharge to the ocean	Water temperature at discharge point $\leq 42^{\circ}\text{C}$; temperature difference of surface water 500m from discharge point $\leq 4^{\circ}\text{C}$	
Hydrogen ion concentration index		6.0—9.0	
Nitrite nitrogen		50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10
	Discharged into places outside tap water quality and volume protection area	Non-high nitrogen processes constructed, under construction or finishing tendering procedures before Dec. 1, 2011.	20
		High nitrogen processes constructed, under construction or finishing tendering procedures before Dec. 1, 2011	60
		Tendering procedures not completed before Dec. 1, 2011	20
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0
Phenols		1.0	
Anion surfactant		10	
Grease (Hexane extracts)		10	
Sulfide		1.0	
Chemical oxygen demand		100	
Suspended solids		30	
True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		550
			400
	Tendering procedure not completed before Dec. 25, 2017		300

In effect from Jan. 1, 2021.

Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
	Tendering procedure not completed before Dec. 25, 2017	2.0	
Benzene		0.05	
Ethyl benzene		0.4	
Methylene chloride	Petrochemical basic chemicals manufacturing industry, petrochemical midstream products manufacturing industry, petrochemical downstream products manufacturing industry	0.2	
Chloroform		0.6	
1,2-dichloroethane		0.10	
Vinyl chloride		0.10	
Dimethyl phthalate (DMP)		0.2	
Diethyl phthalate (DEP)		0.4	
Dibutyl phthalate (DBP)		0.4	
Benzyl butyl phthalate (BBP)		0.4	
Di-n-octyl phthalate (DNOP)		0.6	
Bis(2-ethylhexyl) phthalate (DEHP)		0.2	
Acrylonitrile	Approved discharge volume more than 10,000 m ³ per day except for those only producing natural gas.	0.2	In effect from Jan. 1, 2021.
1,2-butadiene		0.1	