BROMINE NUMBER/BROMINE INDEX

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Do you still have questions? Make a copy of this chart, annotate on it, write your comments below, and send it to us. We will review your comments and get back to you.

Comments:_____

		METHOD #	TITLE	SIGNIFICANCE	SCOPE	APPLICABLE KEM MODELS	REQUIRED ACCESSORIES
ELECTROMETRIC	BROMINE #	ASTM D1159 - 07(2012)	Bromine Numbers of Petroleum Distillates & Aliphatic Olefins by Electrometric Titration	* Bromine Number is useful as a correlated measure of aliphatic unsaturation in petroleum samples. Can be used (in conjunction with Annex A1) to estimate the percentage of olefins in petroleum distillates boiling up to 327°C (626°F). * Also applies to commercial aliphatic mono-olefins, though not satisfactory for normal alpha-olefins.	* Applicable to gasoline (including leaded, unleaded, and oxygenated fuels), kerosine, and distillates in the gas oil range. NOTE: The practice of using a factor of 1000 to convert Bromine Number to Bromine Index is not applicable, though dividing Bromine Index by 1000 to convert to Bromine Number is.	**AT-510 AUTOTITRATOR** (order with Polarization Preamp)	*Twin-Platinum Electrode *Electrode Connecting Cable *Jacketed Titrations Vessel
	BROMINE INDEX	ASTM D2710 - 09	Bromine Index of Petroleum Hydrocarbons by Electrometric Titration	* Provides a measure of trace amounts of unsaturated hydrocarbons in petroleum distillates boiling up to 288°C (550F). An estimate of the quantity of these materials is useful in assessing the suitability of the lighter fractions for use as reaction solvents.	* Applicable only to essentially olefin-free hydrocarbons (Bromine Index <1000) with distillation end point under 288°C (550°F). * Materials with bromine index greater than 1000 should be tested for Bromine Number using Test Method D1159. * Tested on petroleum distillates such as straight-run and hydrocracked naphtha, reformer feed, kerosine, and aviation turbine fuel in the range of 100-1000 Bromine Index.	**AT-610-OT AUTOTITRATOR** Includes: *Polarization Preamp *Twin-Platinum Electrode *Electrode Cable	*Jacketed Titration Vessel
		ASTM D5776 - 07(2012)	Bromine Index of Aromatic Hydrocarbons by Electrometric Titration	* Suitable for setting specification, for use as an internal quality control tool, and for use in development or research work on industrial aromatic hydrocarbons and related material. Only gives a broad indication of olefinic content.	* Applicable to aromatic hydrocarbons having only trace amounts of olefins (Bromine Index <500) with distillation end point less than 288°C (550°F).	**AT-700 AUTOTITRATOR** (order with Polarization Preamp)	*Twin-Platinum Electrode *Electrode Connecting Cable *Jacketed Titrations Vessel
COULOMETRIC		ASTM D1492 - 08e1	Bromine Index of Aromatic Hydrocarbons by Coulometric Titration	* Suitable for setting specification, for use as an internal quality control tool, and for use in development or research work on industrial aromatic hydrocarbons and related material. Only gives a broad indication of olefinic content.	* Applicable to aromatic hydrocarbons having only trace amounts of olefins (Bromine Index <500) with distillation end point less than 288°C (550°F).	**MKC-501D KARL FISCHER TITRATOR** **MKC-520D KARL FISCHER TITRATOR** **MKC-610DT KARL FISCHER TITRATOR**	