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Table 3. Hydrophilicity/lipophilicity assessments of various cationic phthalocyanine dyes, and certain of their derivatives, which are or have been commercially available. For dye structures, and for the chemistry of the various species, see Figs. 1 and 2. Log P_{oct} values were estimated using the procedures of Hansch & Leo (1979).

Ionic species of various alcian blue and related dyes	Log P_{oct}	Electric charge
<i>Alcian blue 8G (Ingrain blue 1)</i>		
Tetraisothiuronium compound	-14.7	4+
Pigment from tetrasubstituted compound	7.5	0
Triisothiuronium compound	-9.4	3+
Pigment from trisubstituted compound	7.3	0
Diisothiuronium compound	-4.1	2+
Pigment from disubstituted compound	7.1	0
<i>Alcian blue pyridine variant</i>		
Tetrapyridinium compound	-9.4	4+
Pyrone derivative	5.4	0
Dihydro derivative, free base species	8.2	0
Dihydro derivative, salt species	-7.0	4+
<i>Alcec blue</i>	-8.7	3+
<i>Cuprolinic blue</i>	-17.0	4+
<i>Astra blue 6GLL</i>		
Hydrochloride (HCl) species of triamine	-6.3	3+
Free base species of triamine	6.3	0
<i>Propyl astra blue</i>		
Diquaternary ammonium salt + one amine HCl species	-7.5	3+
Diquaternary ammonium salt + one free base species	-3.3	2+
Monoquaternary ammonium salt + two amine HCl species	-6.9	3+
Monoquaternary ammonium salt + two free base species	1.5	1+