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(54) Title: ISOPARAFFINIC AND ISO-OLEFINIC DISTILLATE COMPOSITIONS

		A	B	C	D
on aromatic rings	Ha	0.17	0.13	0.17	0.15
on olefinic carbons	Ho	0.03	1.29	3.03	4.38
alpha to aromatic rings	H(alpha)	0.16	0.51	1.07	1.49
beta to aromatic rings, naphthenic & paraffinic CH	Hc ₁	4.94	10.97	19.4	26.06
paraffinic CH ₂ , CH ₃ beta to and CH ₂ >= gamma from aromatic ring	Hc ₂	43.3	38.8	32.59	27.69
paraffinic CH ₃ , CH ₃ >=gamma from aromatic ring	Hd	51.4	48.29	43.74	40.24
Hc ₁ / Hc ₂		0.11	0.28	0.60	0.94
Hc ₁ / Hd		0.10	0.23	0.44	0.65
Hc ₂ / Hd		0.84	0.80	0.75	0.69
Hd / (Hc ₁ + Hc ₂)		1.07	0.97	0.84	0.75
Hd / Hc ₂		1.19	1.24	1.34	1.45

Figure

(57) Abstract: Compositions are provided that include at least a portion of an isoparaaffinic blend component, an iso-olefinic blend component, or a combination thereof, along with a method for making such a blend component. The highly isoparaaffinic and/or iso-olefinic nature of the blend component can allow a blend component to be used in combination with both conventional / mineral fractions as well as non-traditional feeds to form fuel fractions and/or fuel blending component fractions. Examples of fuels that can be formed by making a blend that includes an isoparaaffinic and/or iso-olefinic blend component include diesel fuels, marine gas oils, and various types of marine fuel oils, such as very low sulfur fuel oils.

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