

국내 동물성유지의 FAME 함량 분석방법 개선 연구

민경일^{1,2,*}, 임의순¹, 정충섭¹, 나병기²

¹한국석유관리원 녹색기술연구소; ²충북대학교 화학공학과
(muggu@kpetro.or.kr*)

Recently it is world trend that the bio-diesel usage for energy security and CO2 reduction. but we are depending on importing most of the raw materials about 72%. therefore we have discussed 4 times through the W.G from June 2009 about the supply of the animal fat bio-diesel which can be supplied in domestic as a means of diversification of raw materials for energy security. in these W.G, we knew that the current FAME analysis method 'KS M 2413' is not applicable for animal fat bio-diesel because the animal fat bio-diesel has odd carbon number FAME(C17) using a internal standard in current method unlike vegetable bio-diesel. so we searched a new method and finally found EU method 'prEN 14103-2009' using C19 FAME as the internal standard. we reviewed this method for animal fat bio-diesel. and then we resulted that this method can be applicable for all of the domestic available animal fat bio-diesel.