

# 5. BÖLÜM

## Alkoller

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### Giriş

Alkol kimyasal olarak, karbon atomuna doğrudan bir -OH grubunun bağlı olduğu organik bileşiklerin genel bir isimlendirilmesidir. Ancak genel kullanımda alkol denildiği zaman 2 karbon atomu, 6 hidrojen atomu ve 1 oksijen atomundan oluşan etil alkol (C<sub>2</sub>H<sub>5</sub>OH) olarak anlaşılmaktadır. Etanol hidrofilik bir bileşiktir ve su ile kolayca karışmaktadır. Su ve alkolün her ikisi de polar bileşikler olup, bir uçları negatif ve bir uçları da pozitif yüklüdür. Birinin negatif ucu diğerinin pozitif ucunu çekmekte ve bu özellikleri de birbirleri içerisinde karışabilmeleri açısından önemlidir.

Alkol; mikroorganizmaların (bakteri, maya) meyve, sebze ve tahıllarda bulunan şekeri fermantasyon sonucunda alkol, karbon dioksit ve enerjiye çevirmesi sonucu üretilmektedir. Oral yoldan tüketilen alkol de, etil alkoldür. Etanol, saf olarak tüketilmemekte ve genellikle belli bir dereceye kadar su içinde dilüe edilmektedir.

Alkol, toksikolojik analizlerde tek başına en sık tespit edilen maddedir. Amerika Alkol Kötüye Kullanımı Enstitüsünün 2015 raporunda 18 yaş ve üzerindeki kişilerin %86,4'ünün en az bir kere alkollü içecek tükettiği, %70,1'inin son 1 yılda ve %56'sının son bir ayda alkollü içecek almış olduğu belirtilmek-

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