CLAIMS

What is claimed is:

1. An engineered ketoreductase variant having at least 95% or more sequence identity to SEQ ID NO: 138, wherein the residue at position 95 is not valine or the residue at position 135 is not valine or the residue at position 139 is not isoleucine and wherein said positions are numbered with reference to SEQ ID NO: 138.

2. The engineered ketoreductase variant of claim 1 having at least 95% or more sequence identity to SEQ ID NO: 112.

3. The engineered ketoreductase variant of claim 1 having at least 95% or more sequence identity to SEQ ID NO: 124, and at least an additional substitution at position 207, wherein said positions are numbered with reference to SEQ ID NO: 124.

4. The engineered ketoreductase variant of claim 1 having at least one additional substitution or substitution set at positions selected from 19, 24/43/47/49/67/68/70/91/220, 24/68/91/218/220, 67, 72, 74/75/78/108, 75/78/99/108/215/224, 78/107, 95, 96 and 114, wherein said positions are numbered with reference to SEQ ID NO: 138.

5. The engineered ketoreductase variant of claim 1, wherein said engineered ketoreductase comprises a polypeptide sequence selected from the even-numbered sequences set forth in SEQ ID NOs: 114 to 170.

6. A composition comprising at least one engineered ketoreductase variant provided in claim 1.

7. A method for deracemization of a chiral alcohol comprising at least one engineered ketoreductase variant of claim 1, comprising at least one engineered phosphite dehydrogenase variant, at least one chiral alcohol, and at least one co-factor, under conditions such that said chiral alcohol is deracemized.

8. The method of claim 7, wherein said method is conducted in one pot reaction.