Following type of non-ionic detergents are present in liquid detergents, emulsifying agents and wetting agents. Label the hydrophilic and hydrophobic part in the molecule. Identify the functional group (s) present in the molecule.

 $O (CH_2CH_2O)_x CH_2CH_2OH$ (x = 5 to 10) C,Hi9

O (CH2CH2O) CH2CH2OH C H a Hydrophobic or

non-polar part

Hydrophilic or polar part