

***Interactive comment on “Volatile organic
compounds (VOCs) in photochemically aged air
from the Eastern and Western Mediterranean” by
Bettina Derstroff et al.***

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The physical Henry's law coefficients (H) of methanol, acetone and acetic acid are used by the EMAC model and considered for the discussion of the results. However, for acetic acid the use of the effective coefficients (H^*) is more appropriate. With an acidity constant (K_a) of 1.8E-5 M, an assumed mesophyll liquid pH of 7 and an ocean pH of 8.14, H^* is estimated to be a factor of 181 and 2486 larger than H over vegetation and sea water, respectively. The authors might want to consider H^* rather than H for acetic acid in their discussion.

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