

Olfactory Thresholds in Vertebrates and Insects

Number of molecules per cm ³ in log 10 units	man	dog	eel	bee	bee single cell	Locusta single cell	Bombyx single cell		Bombyx		Necrophorus
							♂	♀	♂	♀	
Trinitrobutyltoluene	(7) ₁										
Caproic acid	11 ₁	4 ₄		11 ₃	12	9					
Butyric acid	10 ₁	4 ₄		11 ₃							
d.-Jonon	8 ₂	4 ₅	6 ₆	10 ₃							
Diacetyl		(3) ₅									
Phenyl ethyl alcohol			(3) ₆								
Phenyl propyl alcohol	10 ₃			(9) ₃							
Queen Substance	∞				(8)						
Hexenal						(8)					
Bombykol	∞						(7)	∞	(2)	∞	
Skatole	9 ₁										14 ₇
CO ₂					16						

Maximum concentration at 1 atm. = 10¹⁹ particles per cm³

FIGURE 15. Olfactory threshold data from Fig. 14 compared with data from other authors. The lowest threshold value of each animal is encircled. (1) von Skramlik (1948); (2) Neuhaus (1957); (3) Schwarz (1955); (4) Neuhaus (1953); (5) Neuhaus (1956a and b); (6) Teichmann (1959); (7) Abbott (1936).