

## Ethylene Oxide Hemoglobin Adduct in Non-smokers (2013 - 2016)

CAS Number 75-21-8

Geometric mean and selected percentiles of hemoglobin adduct concentrations of (in pmol/g hemoglobin) for the non-smoking<sup>^</sup> U.S. population from the National Health and Nutrition Examination Survey.

Demographic (Categories)	Survey (Years)	Geometric Mean (95% CI)	50th Percentile (95% CI)	75th Percentile (95% CI)	90th Percentile (95% CI)	95th Percentile (95% CI)	Sample Size
Total population	13-14	28.5 (27.0-30.1)	29.1 (27.6-30.5)	37.5 (35.4-39.7)	50.1 (46.8-52.9)	60.8 (55.9-69.7)	1945
Total population	15-16	27.7 (26.1-29.5)	26.5 (25.2-27.7)	34.7 (32.7-36.6)	47.8 (44.0-53.4)	63.8 (54.0-80.1)	1896
Age 6-11 years	13-14	33.9 (31.6-36.4)	33.2 (30.2-36.8)	42.9 (37.9-47.9)	52.6 (48.8-56.2)	62.9 (55.8-76.1)	321
Age 6-11 years	15-16	33.1 (31.8-34.4)	32.2 (30.7-33.7)	39.9 (37.8-42.0)	52.0 (46.6-58.6)	60.3 (56.0-64.2)	301
Age 12-19 years	13-14	29.3 (27.4-31.2)	29.6 (27.4-31.2)	36.4 (34.4-40.0)	49.0 (44.1-56.8)	60.3 (48.0-79.8)	358
Age 12-19 years	15-16	27.6 (25.1-30.3)	27.0 (25.2-29.3)	35.3 (31.3-39.1)	46.3 (40.7-53.9)	54.0 (46.3-60.4)	328
Age 20+ years	13-14	27.8 (26.2-29.5)	28.6 (26.9-30.1)	36.8 (34.6-38.8)	49.2 (44.5-54.1)	60.8 (54.1-69.7)	1266
Age 20+ years	15-16	27.2 (25.5-29.0)	25.7 (24.1-27.2)	33.7 (32.0-36.2)	47.5 (43.1-54.0)	65.8 (54.0-82.7)	1267
Males	13-14	29.0 (27.2-31.0)	30.2 (28.3-31.3)	38.4 (35.9-40.4)	50.5 (45.3-52.9)	60.4 (52.9-71.1)	897
Males	15-16	29.1 (27.5-30.8)	27.3 (25.7-28.7)	36.4 (34.4-37.8)	51.2 (45.8-56.9)	80.1 (60.5-83.0)	882
Females	13-14	28.1 (26.5-29.8)	28.6 (26.9-29.7)	36.6 (34.9-38.6)	49.6 (45.7-55.6)	60.8 (54.7-69.7)	1048
Females	15-16	26.6 (24.7-28.6)	25.8 (24.1-27.3)	33.2 (31.7-35.6)	46.6 (40.5-52.6)	56.9 (49.0-68.1)	1014
Non-Hispanic Blacks	13-14	31.3 (29.1-33.7)	30.8 (28.7-33.7)	43.9 (38.0-47.9)	58.3 (51.7-69.2)	78.4 (61.9-109)	376
Non-Hispanic Blacks	15-16	31.8 (30.1-33.6)	30.7 (28.0-33.6)	40.6 (38.0-44.4)	53.9 (47.6-63.7)	65.6 (55.2-79.2)	340
Non-Hispanic Whites	13-14	27.2 (25.0-29.5)	28.1 (26.2-30.2)	35.9 (32.6-39.1)	48.0 (42.1-52.9)	59.2 (49.6-69.7)	680
Non-Hispanic Whites	15-16	26.1 (24.0-28.4)	25.0 (23.6-26.6)	32.2 (29.7-34.3)	43.1 (39.9-48.9)	63.8 (46.4-83.1)	569
All Hispanics	13-14	30.2 (28.9-31.6)	30.0 (29.2-31.3)	37.2 (35.1-39.5)	49.1 (44.4-53.7)	59.2 (52.6-73.1)	585
All Hispanics	15-16	29.0 (27.7-30.4)	27.6 (26.4-29.4)	35.7 (34.1-37.4)	47.4 (42.0-58.3)	62.7 (49.4-95.4)	654

Limit of detection (LOD, see Data Analysis section) for Survey years 13-14 and 15-16 are 13.13 and 13.13, respectively.

<sup>^</sup> Non-smoking is defined as a serum cotinine concentration of 10 ng/mL or less.