

Volatilome: Insight into our Health

Human body is a factory of Volatile Organics Compounds

Methyl Propane (Br)
Lung Cancer, Breast
Cancer, Oxidative
Stress

**Acetone (Br, U, F, BI,
Sk, Sa)**
Lung Cancer, Ketosis,
Diabetes, CPD, Cystic
fibrosis

**Ethanol (Br, U, F, BI,
Sa)**
Diabetes, CPD, Cystic
fibrosis



Methanol (Br, F, BI)
Lung Cancer, Cystic
fibrosis

Isoprene (Br, BI)
Asthma, Cystic fibrosis,
Lung Cancer

Nitric Oxide (Br)
Asthma, COPD

Methyl Mercaptan (Br)
Chronic hepatitis,
Endocarditis

Pentane (Br, F, BI)
Asthma, Cystic fibrosis,
Lung Cancer, Arthritis,
Schizophrenia

A large number of volatiles in breathe are strong biomarkers

Br - Breathe
BI - Blood
F - Faeces
U - Urine
Sa - Saliva
Sk - Skin