

Petroleum Hydrocarbon

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Collective term for [oil](#), [condensate](#) and [natural gas](#) and their [mixtures](#), normally encountered in [subsurface reservoirs](#).

Its [composition](#) is dominated by [pure hydrocarbons](#) (usually [Alkanes](#), [Naphthenes](#), [Aromatics](#), [Asphaltics](#)) and may also include the other [organic](#) and [inorganic](#) chemical substances (like [carbon dioxide](#), [nitrogen](#), [hydrogen sulfide](#), [helium](#) etc.).

Table 1 – Example of [composition](#) of several [Petroleum Hydrocarbon](#) (in mol %)

Substance	Dry Gas	Wet Gas	Condensate	Volatile Oil	Black Oil
CO ₂	0.10	1.41	2.37	1.82	0.02
N ₂	2.07	0.25	0.31	0.24	0.34
C ₁	86.12	92.46	73.19	57.60	34.62
C ₂	5.91	3.18	7.80	7.35	4.11
C ₃	3.58	1.01	3.55	4.21	1.01
<i>i</i> C ₄	1.72	0.28	0.71	0.74	0.76
<i>n</i> C ₄		0.24	1.45	2.07	0.49
<i>i</i> C ₅	0.50	0.13	0.64	0.53	0.43
<i>n</i> C ₅		0.08	0.68	0.95	0.21
C _{6s}		0.14	1.09	1.92	1.16
C ₇₊		0.82	8.21	22.57	56.40
Rs (SCF/STB)		69,000	5965	1465	320
Rv (STB/MMSCF)	0	15	165	680	3125
API gravity		65.0	48.5	36.7	23.6
M ₇₊		132	184	240	274
7+		0.750	0.816	0.864	0.920

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Petroleum Geology](#) / [Petroleum Reservoir Fluids](#)

References

https://www.engineeringtoolbox.com/hydrocarbon-boiling-melting-flash-autoignition-point-density-gravity-molweight-d_1966.html