

Gas Properties - Natural Gas

Gas Name	Chemical Formula	Chemical Family
Natural Gas	CH ₄ + HC's	Alkane
Synonym(s)	Sweet Gas, Marsh Gas, Natural Gas, Methyl Hydride	

Molecular Weight	Critical Pressure (psia)	Critical Temperature (R)	Ratio of Specific Heats	
18.910	670	382	1.288	
Physical Characteristics		Solubility		
Colorless, Odorless, Tasteless (See Comments)		Slightly soluble in water. Soluble in alcohol and most petroleum products.		
Applications or Uses				
Fuel or Chemical use				
Hazards				
Flammable. Explosive. A	Asphyxiant. Lighter than air so co	ollects in overhead pockets. Han	dle in well-ventilated areas.	
Material Requirements				
Standard materials of co	onstruction			
Lubrication				
Standard guidelines for	lube or non-lube service.			
Comments				
shown is a clean, dry, "s	weet natural gas" with the follo	how it is produced. The mixture wing composition: 85% Methane is to be used as a guideline. Spec	e, 10% Ethane, 3% Propane, 1%	

Butane, 0.5% Nitrogen and 0.5% CO_2 . The information determine the presence of water, H_2S and debris.

Residential (and some commercially applied) Natural Gas has an odorant added to aid in leak detection.