



Hydrogen bromide 5.0

Purity, %: ≥ 99.999

Impurities, ppm:	N ₂	≤ 2
	O ₂	≤ 1
	H ₂ O	≤ 1
	CO	≤ 1
	CO ₂	≤ 5
	Fe	≤ 1*
	CH ₄	≤ 1

Specified data are ideal volume shares (=mole shares)

Supply notice * mass fractions

Conversion factors:	m³ gas (15°C, 1 bar)	l liquid at T_b	kg
	1	1.548	3.409
	0.646	1	2.203
	0.293	0.454	1

Identification:	Cylinder shoulder colour/ Circular colour strip at bundles	Yellow RAL 1018
	Label:	Hydrogen bromide 5.0
	Valve outlet:	1, DIN 477 No. 8

Properties: under pressure liquefied gas, caustic

AGW value:	2 ppm
Chemical symbol:	HBr
Molar mass:	80.912 g/mol

Relative density based on dry air (15°C, 1 bar):	2.818
Critical temperature:	363.05 K (89.9 °C)
Boiling point at 1.013 bar (T_b):	206.43 K (-66.72 °C)

Applications: Dry etching of semiconductor materials (e.g. plasma etching of polysilicon). Mixtures of hydrogen bromide with other gases in defined compositions.

Also available: Mixtures with other gases in defined compositions.

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