

Methanamine, hydrochloride

Other names:	methylammonium chloride
Inchi:	InChI=1S/CH5N.ClH/c1-2;/h2H2,1H3;1H
InchiKey:	NQMRYBIKMRVZLB-UHFFFAOYSA-N
Formula:	CH6ClN
SMILES:	C[NH3+].[Cl-]
Mol. weight [g/mol]:	67.52
CAS:	593-51-1

Physical Properties

Property code	Value	Unit	Source
ss	138.53	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	90.92	J/mol×K	298.15	NIST Webbook
hvapt	114.50	kJ/mol	555.50	NIST Webbook
psub	0.06	kPa	435.50	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	8.50e-03	kPa	403.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride

psub	0.02	kPa	413.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	0.03	kPa	423.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	4.40e-03	kPa	393.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	0.17	kPa	455.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	0.29	kPa	463.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	0.44	kPa	473.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	0.72	kPa	483.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride

psub	1.12	kPa	493.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride
psub	2.50	kPa	513.00	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride

Sources

Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride:

<https://www.doi.org/10.1016/j.tca.2017.10.021>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C593511&Units=SI>

Legend

cps: Solid phase heat capacity
hvapt: Enthalpy of vaporization at a given temperature
psub: Sublimation pressure
ss: Solid phase molar entropy at standard conditions

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