

Carbamic acid, monoammonium salt

Other names:	Ammonium carbamate Ammonium carbamate Carbamic acid, ammonium salt
Inchi:	InChI=1S/CH3NO2.H3N/c2-1(3)4;/h2H2,(H,3,4);1H3
InchiKey:	BVCZEBOGSOYJJT-UHFFFAOYSA-N
Formula:	CH6N2O2
SMILES:	NC(=O)[O-].[NH4+]
Mol. weight [g/mol]:	78.07
CAS:	1111-78-0

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	131.00	J/mol×K	295.50	NIST Webbook
hvapt	54.10	kJ/mol	289.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.17555e+01
Coeff. B	-5.22158e+03
Coeff. C	-2.72200e+01
Temperature range (K), min.	247.05
Temperature range (K), max.	331.45

Sources

The Yaws Handbook of Vapor
Pressure:
NIST Webbook:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C1111780&Units=SI>

Legend

cps:	Solid phase heat capacity
hvapt:	Enthalpy of vaporization at a given temperature
pvap:	Vapor pressure

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