

4-Chloroaniline hydrochloride

Inchi:	InChI=1S/C6H6ClN.ClH/c7-5-1-3-6(8)4-2-5;/h1-4H,8H2;1H
InchiKey:	ISJBQSJDQZLCSF-UHFFFAOYSA-N
Formula:	C6H7Cl2N
SMILES:	Cl.Nc1ccc(Cl)cc1
Mol. weight [g/mol]:	164.04
CAS:	20265-96-7

Physical Properties

Property code	Value	Unit	Source
af	0.3336		Cheméo Relay (1.0)
hf	-18.30	kJ/mol	Cheméo Relay (1.0)
hvap	69.73	kJ/mol	Cheméo Relay (1.0)
ie	8.35	eV	Cheméo Relay (1.0)
log10ws	-1.93		Cheméo Relay (1.0)
pc	4618.42	kPa	Cheméo Relay (1.0, beta)
tb	524.43	K	Cheméo Relay (1.0)
tc	696.47	K	Cheméo Relay (1.0)
tf	440.14	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	77.80	kJ/mol	428.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.85588e+01
Coeff. B	-7.53636e+03

Coeff. C	-3.04400e+00
Temperature range (K), min.	373.00
Temperature range (K), max.	571.94

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=C20265967&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Legend

af:	Acentric Factor
hf:	Enthalpy of formation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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