

Ethene, 1-bromo-2-chloro-

Inchi:	InChI=1S/C2H2BrCl/c3-1-2-4/h1-2H
InchiKey:	LYFQYPSHMWBHFG-UHFFFAOYSA-N
Formula:	C2H2BrCl
SMILES:	ClC=CBr
Mol. weight [g/mol]:	141.39
CAS:	3018-09-5

Physical Properties

Property code	Value	Unit	Source
gf	48.57	kJ/mol	Joback Method
hf	43.20	kJ/mol	Joback Method
hfus	10.62	kJ/mol	Joback Method
hvap	30.82	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	2.091		Crippen Method
mcvol	64.480	ml/mol	McGowan Method
pc	5687.39	kPa	Joback Method
tb	354.50 ± 0.50	K	NIST Webbook
tc	560.71	K	Joback Method
tf	196.94	K	Joback Method
vc	0.238	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	71.38	J/mol×K	352.91	Joback Method
cpg	87.01	J/mol×K	526.07	Joback Method
cpg	84.45	J/mol×K	491.44	Joback Method
cpg	81.64	J/mol×K	456.81	Joback Method
cpg	78.54	J/mol×K	422.18	Joback Method
cpg	75.13	J/mol×K	387.54	Joback Method
cpg	89.32	J/mol×K	560.71	Joback Method
dvisc	0.0003533	Paxs	352.91	Joback Method
dvisc	0.0004358	Paxs	326.91	Joback Method

dvisc	0.0005574	Paxs	300.92	Joback Method
dvisc	0.0007468	Paxs	274.92	Joback Method
dvisc	0.0010637	Paxs	248.93	Joback Method
dvisc	0.0016452	Paxs	222.94	Joback Method
dvisc	0.0028552	Paxs	196.94	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3018095&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/41-580-2/Ethene-1-bromo-2-chloro.pdf>

Generated by Cheméo on 2024-04-26 06:57:33.642531212 +0000 UTC m=+16403902.563108524.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.