

Phenol, 4-bromo-2-chloro-

Other names:	4-Bromo-2-chlorophenol 2-Chloro-4-bromophenol
Inchi:	InChI=1S/C6H4BrClO/c7-4-1-2-6(9)5(8)3-4/h1-3,9H
InchiKey:	VIBJPUXLAKVICD-UHFFFAOYSA-N
Formula:	C6H4BrClO
SMILES:	Oc1ccc(Br)cc1Cl
Mol. weight [g/mol]:	207.45
CAS:	3964-56-5

Physical Properties

Property code	Value	Unit	Source
gf	-49.81	kJ/mol	Joback Method
hf	-108.83	kJ/mol	Joback Method
hfus	20.21	kJ/mol	Joback Method
hvap	55.72	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.808		Crippen Method
mcvol	107.250	ml/mol	McGowan Method
pc	5944.56	kPa	Joback Method
rinpol	1265.40		NIST Webbook
rinpol	1265.40		NIST Webbook
tb	506.70	K	NIST Webbook
tc	810.23	K	Joback Method
tf	397.76	K	Joback Method
vc	0.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.10	J/mol×K	552.55	Joback Method
cpg	200.12	J/mol×K	595.50	Joback Method
cpg	206.43	J/mol×K	638.44	Joback Method
cpg	212.15	J/mol×K	681.39	Joback Method
cpg	217.39	J/mol×K	724.33	Joback Method

cpg	222.25	J/mol×K	767.28	Joback Method
cpg	226.87	J/mol×K	810.23	Joback Method
dvisc	0.0011327	Pa×s	397.76	Joback Method
dvisc	0.0006305	Pa×s	423.56	Joback Method
dvisc	0.0003753	Pa×s	449.36	Joback Method
dvisc	0.0002364	Pa×s	475.15	Joback Method
dvisc	0.0001561	Pa×s	500.95	Joback Method
dvisc	0.0001074	Pa×s	526.75	Joback Method
dvisc	0.0000765	Pa×s	552.55	Joback Method

Sources

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=C3964565&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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