Phenol, 4-bromo-2,5-dichloro-

Other names:	Phosvel phenol
	2,5-Dichloro-4-bromophenol
	4-Bromo-2,5-dichlorophenol
	Leptophos phenol
Inchi:	InChI=1S/C6H3BrCl2O/c7-3-1-5(9)6(10)2-4(3)8/h1-2,10H
InchiKey:	HWWKEEKUMAZJLL-UHFFFAOYSA-N
Formula:	C6H3BrCl2O
SMILES:	Oc1cc(Cl)c(Br)cc1Cl
Mol. weight [g/mol]:	241.90
CAS:	1940-42-7

Physical Properties

Property code	Value	Unit	Source
gf	-71.37	kJ/mol	Joback Method
hf	-136.04	kJ/mol	Joback Method
hfus	24.02	kJ/mol	Joback Method
hvap	60.77	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.462		Crippen Method
mcvol	119.490	ml/mol	McGowan Method
pc	5495.11	kPa	Joback Method
tb	594.96	K	Joback Method
tc	857.43	K	Joback Method
tf	343.97 ± 0.20	K	NIST Webbook
vc	0.390	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.03	J/mol×K	594.96	Joback Method
cpg	214.88	J/mol×K	638.71	Joback Method
cpg	220.18	J/mol×K	682.45	Joback Method
cpg	225.03	J/mol×K	726.20	Joback Method
cpg	229.55	J/mol×K	769.94	Joback Method

cpg	233.85	J/mol×K	813.69	Joback Method
cpg	238.05	J/mol×K	857.43	Joback Method
dvisc	0.0003421	Pa×s	465.99	Joback Method
dvisc	0.0005619	Pa×s	440.20	Joback Method
dvisc	0.0002194	Pa×s	491.79	Joback Method
dvisc	0.0001471	Pa×s	517.58	Joback Method
dvisc	0.0001024	Pa×s	543.37	Joback Method
dvisc	0.0000737	Pa×s	569.17	Joback Method
dvisc	0.0000546	Pa×s	594.96	Joback Method
hfust	22.11	kJ/mol	343.40	NIST Webbook
hfust	22.11	kJ/mol	343.40	NIST Webbook

Sources

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=C1940427&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hfust: Enthalpy of fusion at a given temperature
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